SHARP

MODEL

LC-40LE820X
LC-46LE820X
LC-52LE820X

LCD COLOUR TELEVISION

OPERATION MANUAL

AQUOS

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SHARP

WARRANTY

Consumer Electronic Products

Congratulations on Your Purchase!

This Sharp product is warranted against faults in materials and manufacture for a period of twelve (12) months from the date of original purchase.

If service is required during the warranty period, please contact your nearest Sharp Approved Service Centre. These repairs would be carried out at no charge to the owner, subject to the conditions specified herein.

The owner is responsible for any transportation and insurance costs if the product has to be returned for repair.

This warranty does not extend to accessories or defects or injuries caused by or resulting from causes not attributable to faulty parts or the manufacture of the product, including but not limited to, defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, liquid spillage, vermin infestation, software, or any alterations made to the product which are not authorised by Sharp.

Please retain your sales documentation, as this should be produced to validate a warranty claim.

This warranty is in addition to and in no way limits, varies or excludes any express and implied rights and remedies under any relevant legislation in the country of sale.

IMPORTANT
DO NOT RETURN THIS DOCUMENT TO SHARP

For your reference, please enter the particulars of your purchase below and retain, with your purchase documentation.

Model No. _____

Serial No. _____

Date of Purchase _____

Retailer _____

SHARP

SHARP CORPORATION OF AUSTRALIA PTY. LIMITED
ABN 40 003 039 405
1 Huntingwood Drive
Huntingwood NSW2148

SHARP CORPORATION OF NEW ZEALAND LIMITED
59 Hugo Johnston Drive
Penrose, Auckland

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IMPORTANT NOTICE: This warranty applies only to products sold in Australia & New Zealand

SHARP®

SHARP CORPORATION

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OPERATION MANUAL

Dear SHARP customer

Thank you for your purchase of the SHARP LCD colour TV product. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Precautions carefully before using this product.

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Precautions For Daily Use

Observe the following items

Maintenance of the cabinet

- When cleaning the cabinet, use a soft cloth (made of cotton, floss, etc.) to clean gently.
  Do not use a dry or damp rag mixed with chemicals, as this could cause the ingredients of the cabinet body to deteriorate or crack.
- Be careful not to use an abrasive cloth for cleaning or clean with excessive force, as this could scratch the surface of the cabinet.
- If the cabinet is greatly soiled, clean with a soft cloth (made of cotton, floss, etc.) soaked with a small amount of diluted neutral detergent and wrung out, and then clean with a soft dry cloth.
- Because the cabinet is made of plastic, solvents such as benzene or thinner could cause it to deteriorate, or make its coating come off. Therefore do not use such solvents to clean the cabinet.
- Because plasticizer is included in the plastics, deterioration or the coating peeling off could occur when the cabinet comes into contact with some substances. Therefore keep it away from volatile substances such as insecticide. In addition, do not let it come into contact with objects made of rubber, resin, etc. for a long time.

Maintenance of the LCD panel

- Before cleaning the LCD panel, be sure to turn off the TV set and unplug the power cord from the outlet.
- When cleaning the LCD panel, use a dry and soft cloth (made of cotton, floss, etc.) to clean the surface of the LCD panel gently. For protecting the LCD panel, do not clean with a dirty cloth, detergent, or a dry or damp rag mixed with chemicals, as this could cause peeling of the panel surface.
- Be careful not to clean with an abrasive cloth or with excessive force, as this could cause the panel surface to be scratched.
- If the LCD panel is greatly soiled, clean it gently with a soft cloth (made of cotton, floss, etc.) soaked with a small amount of water (Do not clean with excessive force, so as to avoid the scratch of the panel surface).
- If dust sticks on the surface of the LCD panel, clean the panel with a commercially available cleaning brush (anti-static brush).

Trademarks

- SRS TruSurround HD™ creates an immersive, feature-rich surround sound experience from two speakers, complete with rich bass, high frequency detail and clear dialogue.

- Manufactured under license from Dolby Laboratories.
  Dolby and the double-D symbol are trademarks of Dolby Laboratories.

- “HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.”

- Products that have earned the ENERGY STAR® are designed to protect the environment through energy efficiency.

- DivX® is a registered trademark of DivX, Inc., and is used under license.

- ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.
- ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.

- LC**フォント**、LCFONT、**エルシーフォント** and LC logo mark are registered trademarks of SHARP Corporation.
  This product is embedded with LC Font technology, which was developed by SHARP Corporation for clearly displaying easy-to-read characters on an LCD screen. However, other non-LCD fonts are used for displaying some screen pages.

- “x.v.Colour” and **x.v.Colour** are trademarks of Sony Corporation.

This product qualifies for ENERGY STAR when “Home” is selected for “TV Location”.
Setting “TV Location” to “Home” allows the TV to achieve an energy-saving status for household use.

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Important Safety Precautions

Caring for the cabinet

- Use a soft cloth (cotton, flannel, etc.) and gently wipe the surface of the cabinet.
- Using a chemical cloth (wet/dry sheet type cloth, etc.) may deform the components of the main unit cabinet or cause cracking.
- Wiping with a hard cloth or using strong force may scratch the surface of the cabinet.
- If the cabinet is very dirty, wipe with a soft cloth (cotton, flannel, etc.) soaked in neutral detergent diluted with water and thoroughly wrung out, and then wipe with a soft dry cloth.
- The cabinet is primarily made of plastic. Avoid using benzene, thinner, and other solvents, as these may deform the cabinet and cause the paint to peel off.
- Do not apply insecticides or other volatile liquids.
  Also, do not allow the cabinet to remain in contact with rubber or vinyl products for a long period of time. Plasticizers inside the plastic may cause the cabinet to deform and cause the paint to peel off.

Caring for the front panel

- Turn off the main power and unplug the AC cord from the wall outlet before handling.
- Gently wipe the surface of the front panel with a soft cloth (cotton, flannel, etc.).
  To protect the front panel, do not use a dirty cloth, liquid cleaners, or a chemical cloth (wet/dry sheet type cloth, etc.). This may damage the surface of the front panel.
- Wiping with a hard cloth or using strong force may scratch the surface of the front panel.
- Use a soft damp cloth to gently wipe the front panel when it is really dirty.
  (It may scratch the surface of the front panel when wiped strongly.)
- If the front panel is dusty, use an anti-static brush, which is commercially available, to clean it.

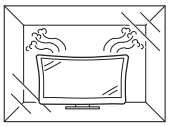
- Water and moisture — Do not use the product near water, such as bathtub, washbasin, kitchen sink, laundry tub, swimming pool and in a wet basement.

- Do not place vases or any other water-filled containers on this product.
  The water may spill onto the product causing fire or electric shock.

- Stand — Do not place the product on an unstable cart, stand, tripod or table. Doing so can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.

- When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.

- Ventilation — The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.



- In case the product is dropped and the cabinet is damaged, be sure to turn off the power of the product, and unplug the power cord. If you continue to use the product, it may cause fire or electric shock. Contact your dealer.

- Do not open the rear cover of the cabinet to reconstruct the circuits. There exists high voltage within the cabinet and it may cause electric shock and injury. If maintenance is required, contact your dealer.

- The LCD panel used in this product is made of glass. Therefore, it can break when the product is struck forcefully or with a sharp object. If the LCD panel is broken, be careful not to be injured by broken glass.

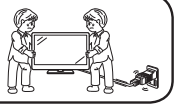
- Heat sources — Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers)

- To prevent fire, never place any type of candle or naked flames on the top or near the TV set.

- To prevent fire or shock hazard, do not place the AC power cord under the TV set or other heavy items.

- Do not place heavy objects on this product or stand on it. Doing so could cause injury if the product overturns. Take special care near children and pets.

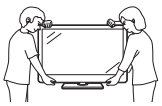
- Unplug the power cord before you move the TV set. If not unplugged beforehand, the power cord may become damaged and cause electric shock.



The LCD panel is a very high technology product with 2,073,600 pixels, giving you fine picture details.
Due to the very large number of pixels, occasionally a few non-active pixels may appear on the screen as a fixed point of blue, green or red. This is within product specifications and does not constitute a fault.

Precautions when transporting the TV

- When transporting the TV, never carry it by holding or otherwise putting pressure onto the display. Be sure to always carry the TV by two people holding it with two hands — one hand on each side of the TV.



- Do not display a still picture for a long time, as this could cause an afterimage to remain.
- Install the product on the place where the AC cord can be unplugged easily from the AC outlet, or from the AC INPUT terminal on the rear of the product.

If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling.
Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television.
- Only using furniture that can safely support the television.
- Ensuring the television is not overhanging the edge of the supporting furniture.
- Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
- Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television or its controls.

NOTE

- The above are pictures for reference only; the actual item might be different.

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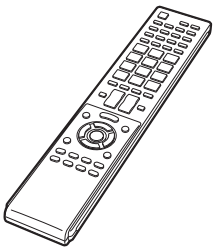
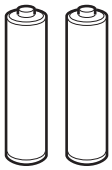
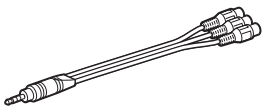
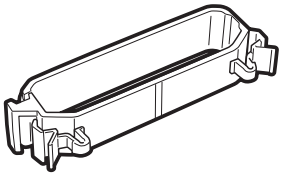
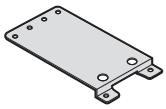
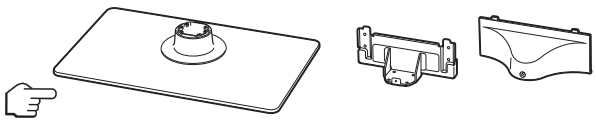
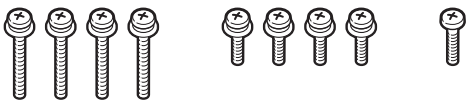
Supplied accessories

Make sure the following accessories are provided with the product.

Remote control unit	"AAA" size alkaline battery (×2)	AV cable
 Used with batteries inserted. Page 11	 Page 15	 Always use the AC cord supplied with the TV. Page 13

Cable clamp	Safety restraint
 For bundling cables. Page 12	 Restraining brackets Screws for brackets Page 8

Operation manual	Stand unit
 	 See the following CAUTION notes.  Put all parts of the stand unit together and then attach it to the TV. Page 7

CAUTION

The stand is made of tempered glass. Read the following precautionary instructions carefully and use it properly.

- Do not drop or place unnecessary stress on it when assembling and attaching the stand.
- Be sure to not accidentally hit the glass part of the stand with a sharp or hard object, as it may cause the glass to break.
- Using tempered glass with scratches for extended periods may lead to damage occurring. If there are scratches on the tempered glass, do not attempt to use the stand.

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Preparation

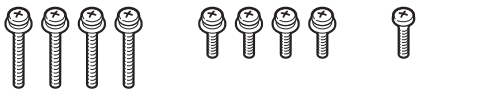
Attaching the stand

- Before attaching (or detaching) the stand, unplug the AC cord from the AC INPUT terminal.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.

CAUTION

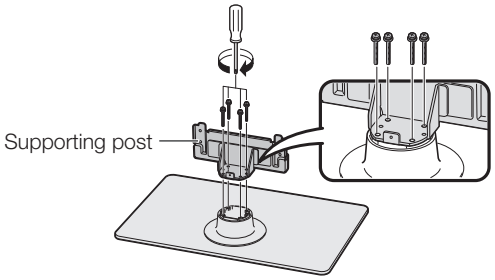
- **Attach the stand in the correct direction.**
- **Be sure to follow the instructions. Incorrect installation of the stand may result in the TV falling over.**

1 Confirm the 9 screws supplied with the TV.

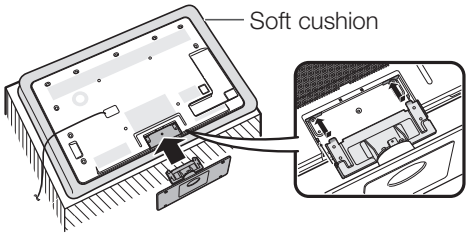


Long screws (×4) (used in step 2) **Short screws (×4) (used in step 4)** **Short screws (×1) (used in step 5)**

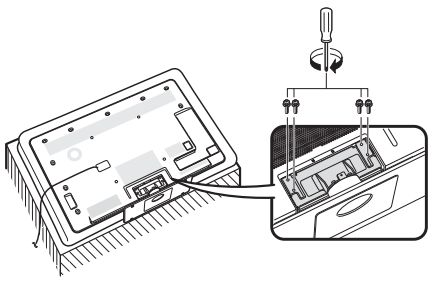
2 Attach the supporting post for the stand unit onto the base using the four long screws with a screwdriver as shown.



3 Insert the stand into the openings on the bottom of the TV (hold the stand so it will not drop from the edge of the base area).



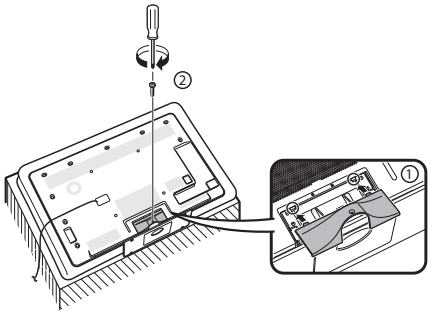
4 Insert and tighten four short screws into the four holes on the rear of the TV.



5 Attach the stand cover.

① Slide the stand cover into the two catches on the stand base.

② Insert and tighten a short screw into the hole on the centre of the stand cover.

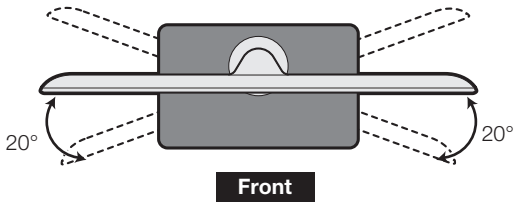


NOTE

- When attaching the stand with the TV laying flat, spread a soft cushion on the table and lay the TV on it.
- To detach the stand, perform the steps in reverse order.

Angle adjustment

You can rotate up to 20 degrees to the right or left.



CAUTION

- Adjust the screen with both hands. Place one hand on the TV and rotate the screen while holding the bottom of the stand (the black part in the above illustration) with your other hand.

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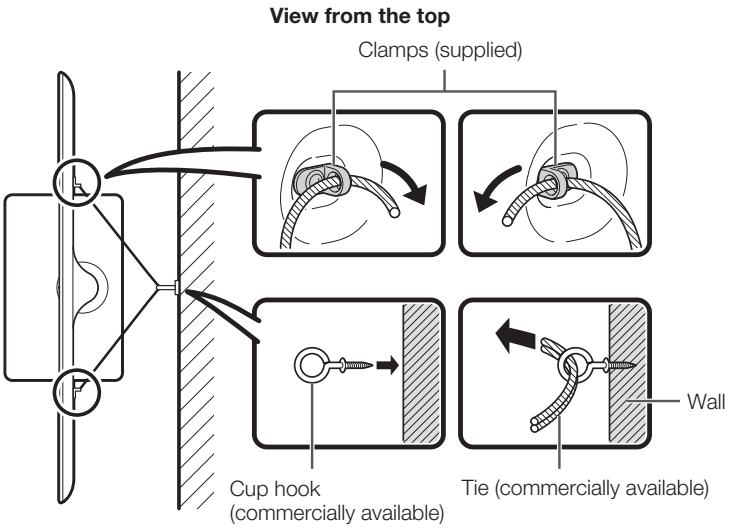
Protection against overturning

There is a danger of the product overturning in the case of a disaster or sudden collision. Carry out the following tip-resistant measurement for your safety.

Anchoring the TV to the wall or a pillar

1 Affix the 2 clamps (supplied) to the product.

2 Affix the TV to the wall or a pillar using extra strong ties and cup hooks.



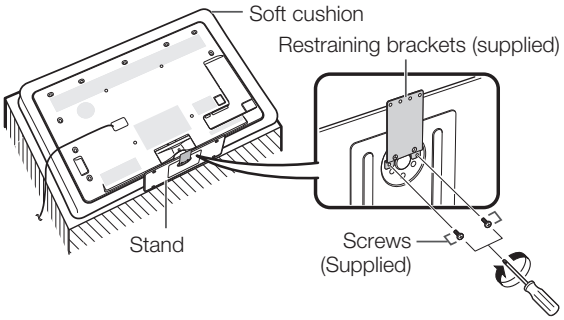
Fixing the TV to the table

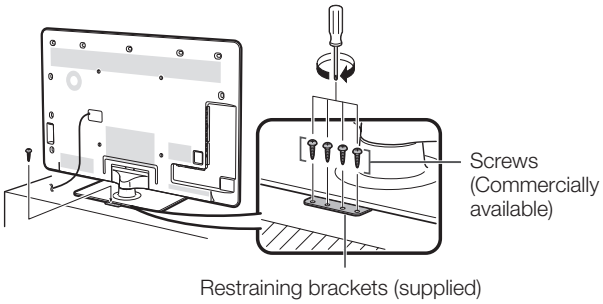
1 Place the TV on the soft cushion.

2 Attach the supplied restraining brackets to the stand with two supplied screws.

3 Insert commercially available screws in the holes of the restraining brackets from the top and tighten the screws to secure the TV to the table.

- Use commercially available screws of the proper size to firmly secure the TV.





CAUTION

- **As this product is heavy, use a table that is wide enough to support the product and capable of withstanding the product's weight. The table should be set where it will not be overturned.**
- Be sure to use at least two people when moving the TV.

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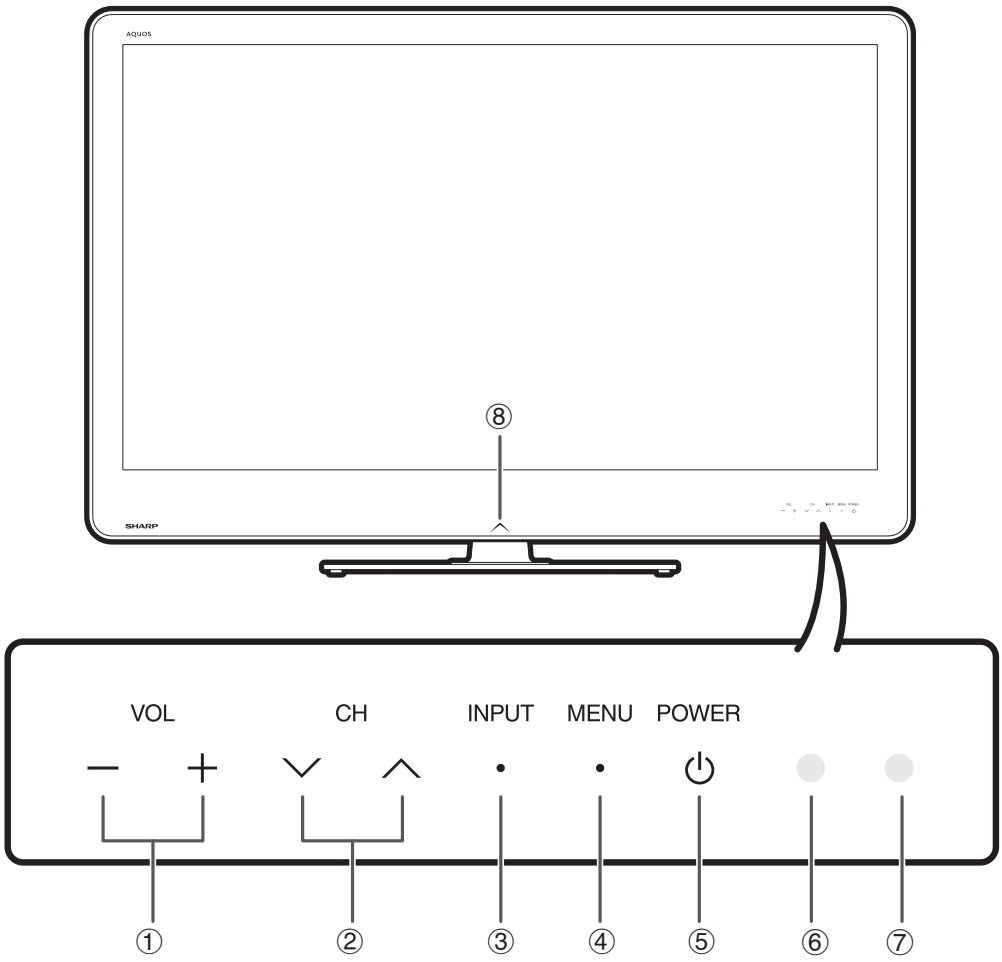
Part names

TV (Front)



① **VOL** +/– (Volume up/down) buttons
② **CH** ∧/∨ (Channel up/down) buttons
③ **INPUT** button
④ **MENU** button
⑤ **POWER** ⏻ (On/Off) button
⑥ OPC sensor*
⑦ Remote control sensor
⑧ Illumination LED

*OPC: Optical Picture Control (See page 34.)

- The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.
- The Illustrations used throughout this manual are based on LC-40LE820X.

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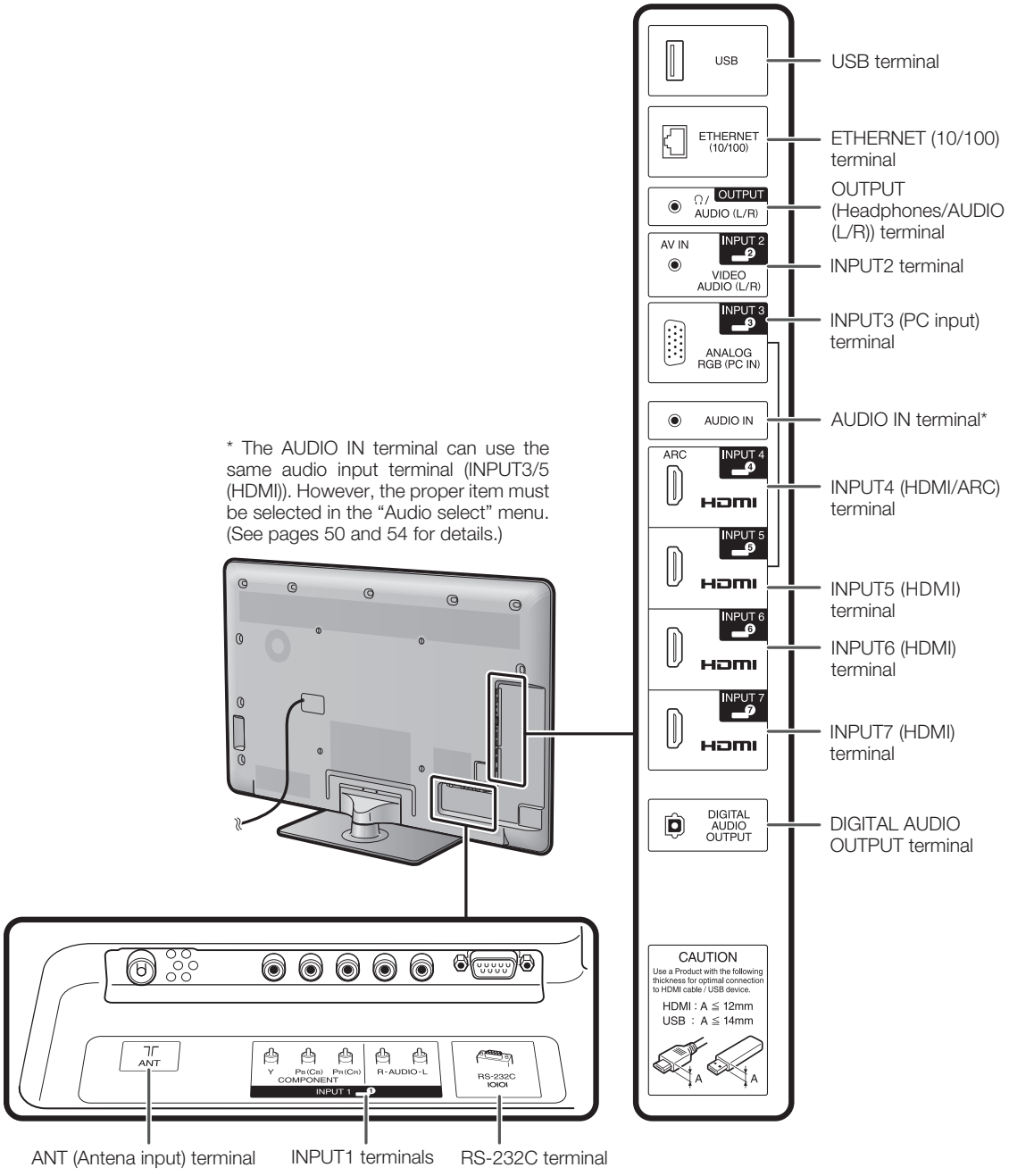
TV (Rear)



* The AUDIO IN terminal can use the same audio input terminal (INPUT3/5 (HDMI)). However, the proper item must be selected in the “Audio select” menu. (See pages 50 and 54 for details.)

Regarding the headphone jack

- Use headphones with a stereo mini plug (Ø 3.5 mm).
- Be sure to unplug headphones from the jack when they are not in use.
- The speakers do not output volume when headphones are plugged in.
- The “Audio” menu cannot be operated when headphones are plugged in.
- You can set the volume to different levels for each input source.

Volume display when headphones are plugged in

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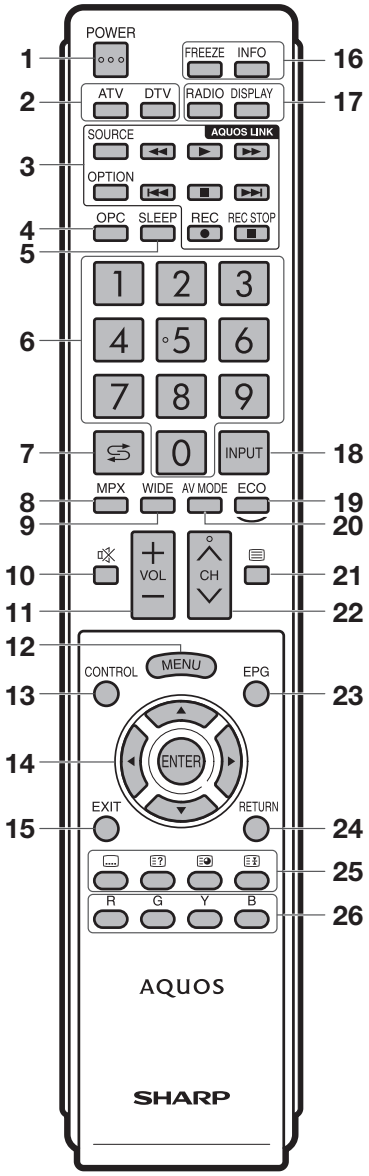
Remote control unit



1 **POWER (Standby/On)**
To switch the power on and off. (See page 16.)

2 **ATV (Analogue TV)**
Press to access analogue TV mode. (See page 40.)

DTV (Digital TV)
Press to access digital TV mode. (See page 40.)

3 **AQUOS LINK buttons**
If external equipment such as a AQUOS BD Player is connected via HDMI cables and is AQUOS LINK compatible, you can use these AQUOS LINK buttons. See pages 45 to 49 for details.

4 **OPC**
To switch the optical picture control on and off. (See page 34.)

5 **SLEEP**
Set the sleep timer. (See page 30.)

6 **0 – 9**
Set the channel. (See page 20.)

7 **(Flashback)**
Press to return to the previous selected channel or external input mode. (See page 25.)

8 **MPX**
Select the sound multiplex mode. (See page 27.)

9 **WIDE**
Change the wide image mode. (See pages 32, 55 and 63.)

10 **(Mute)**
Mute the sound. (See page 25.)

11 **VOL + / –**
Set the volume. (See page 20.)

12 **MENU**
Displays the menu screen. (See page 18.)

13 **CONTROL**
Press to display the panel to operate some functions on the screen.

14 **▲/▼/◀/▶ (Cursor)**
Select a desired item on the setting screen.

ENTER
Execute a command.

15 **EXIT**
Turn off the On-Screen Display.

16 **FREEZE**
Freeze a motion picture on the screen. (See page 25.)

INFO
DTV only: Display the programme information. (See page 39.)

17 **RADIO**
DTV only: Switch between radio and data mode.
When only data broadcasting (no radio broadcasting) is transmitted by DVB, the radio broadcasting will be skipped.

DISPLAY
Displays the channel or input information.

18 **INPUT (INPUT SOURCE)**
Select an input source. (ATV, DTV, INPUT1, INPUT2, INPUT3 (PC), INPUT4, INPUT5, INPUT6, INPUT7 and USB) (See pages 13, 14, 50 to 52 and 54.)

19 **ECO**
Select “Energy save” setting. (See page 30.)

20 **AV MODE**
Select a video setting. (See page 33.)

21 **(Teletext)**
Select the teletext mode. (All TV image, all text image and TV/text image.) (See pages 59 to 61.)

22 **CH∧/∨**
TV input mode: Select the channel. (See page 20.)

23 **EPG**
DTV only: To display EPG (Electronic Programme Guide) screen. (See pages 41 to 44.)

24 **RETURN**
MENU mode: Return to the previous menu screen. (See page 18.)

25 **Buttons for useful operations**
(Subtitle for teletext)
To turn the subtitles on/off. (See pages 59 and 61.)

(Reveal hidden teletext)
Teletext mode: Display hidden charactes. (See page 59.)

(Subpage)
Display the teletext subpage directly. (See page 61.)

(Hold)
Teletext mode: Stop updating teletext pages automatically. Press again to release the hold mode. (See page 59.)

26 **Colour (R/G/Y/B)**
The coloured buttons are used to select correspondingly to the coloured items on the screen. (e.g., AQUOS LINK, DTV, USB, Home network, teletext)

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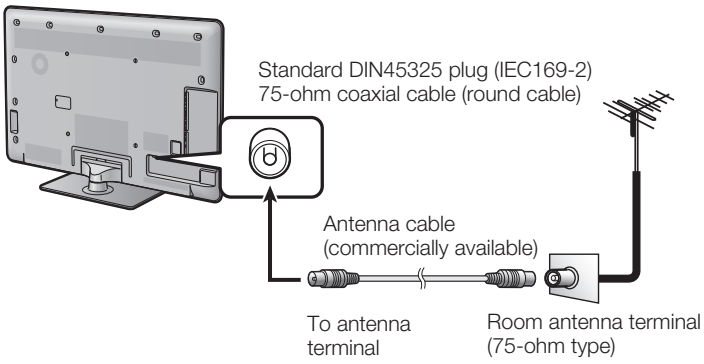
Before turning on the power

Notes on installing the TV

- Avoid direct sunlight and place the TV in a well-ventilated location.
- Place the TV in a level location.
- Do not turn on the power of the TV before connecting the AC cord.

1 **Connecting the antenna cable**

To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for coaxial cable.

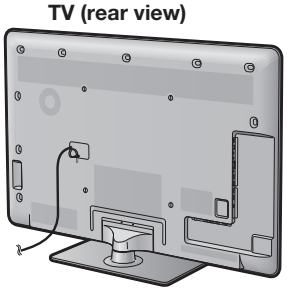


2 **Connecting external devices**

See pages 13 to 14 for connecting external equipment, such as a VCR and DVD player.

3 **Plug the AC cord in to the AC outlet.**

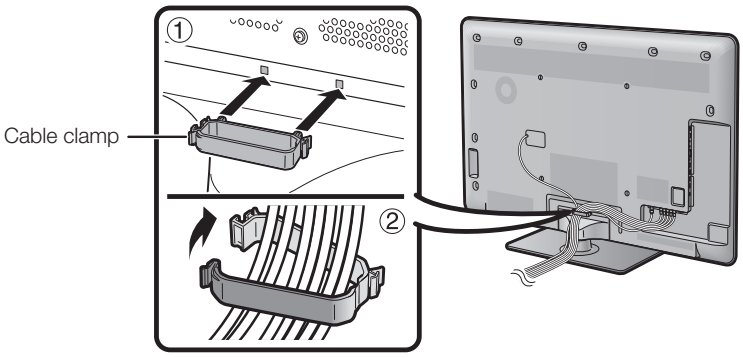
TV (rear view)



- Place the TV close to the AC outlet, and keep the power plug within reach.
- Disconnect the AC cord from the AC outlet if the TV will not be used for a long period of time.

4 **Bundling the cables**

As the picture illustrated, insert the cable clip into the hole on the TV, and put the cable into the cable clip for banding.



CAUTION

- **TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH UN-INSULATED PARTS OF ANY CABLES WITH THE AC CORD CONNECTED.**

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Connecting external devices

You can connect many types of external equipment to your TV, like a VCR, game console, camcorder, DVD player, Digital TV STB (Set Top Box) and PC. To view external source images, select the input source from **INPUT** on the remote control unit or **INPUT** on the TV.

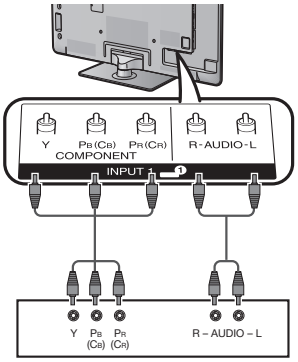
CAUTION

- To protect all equipment, always turn off the TV before connecting to a VCR, game console, camcorder, DVD player, a Digital TV STB (Set Top Box), PC or other external equipment.
- Refer to the relevant operation manual (VCR, DVD player, etc.) carefully before making connections.

Connecting a VCR, game console or camcorder

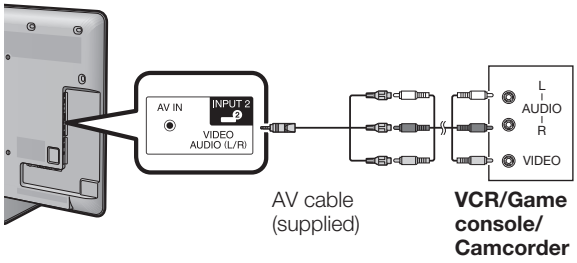
A VCR, game console, camcorder and some other audiovisual equipment can be conveniently connected using the INPUT1 (component)/INPUT2 (composite) terminals.

When using component cable (commercially available)



VCR/Game console/Camcorder

When using composite cable



AV cable (supplied)

VCR/Game console/ Camcorder

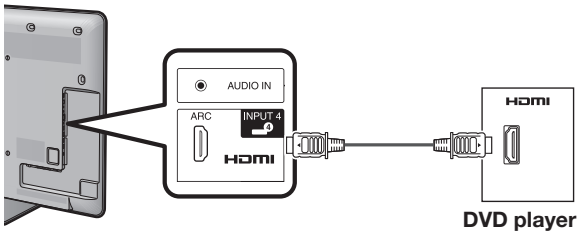
Connecting a DVD player

You can use the INPUT4 (ARC)/INPUT5/INPUT6/INPUT7 (HDMI) or the INPUT1 (component)/INPUT2 (composite) terminals when connecting to a DVD player and other audiovisual equipment.

NOTE

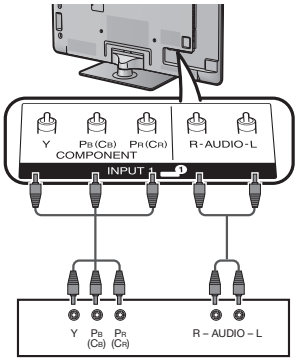
- When using a DVI-HDMI conversion adaptor, input the Audio Signal from the AUDIO terminal of AUDIO IN. (See page 50.)

When using HDMI cable (commercially available)



DVD player

When using component cable (commercially available)



DVD player

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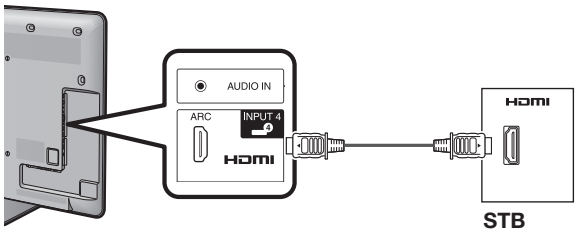
Connecting a Digital TV STB (Set Top Box)

You can use the INPUT4 (ARC)/INPUT5/INPUT6/INPUT7 (HDMI) or the INPUT1 (component)/INPUT2 (composite) terminals when connecting to a Digital TV STB (Set Top Box), and other audiovisual equipment.

NOTE

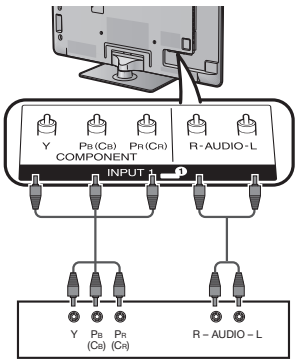
- When using a DVI-HDMI adaptor or conversion cable, input the Audio Signal from the AUDIO terminal of AUDIO IN. (See page 50.)

When using HDMI cable (commercially available)



STB (Set Top Box)

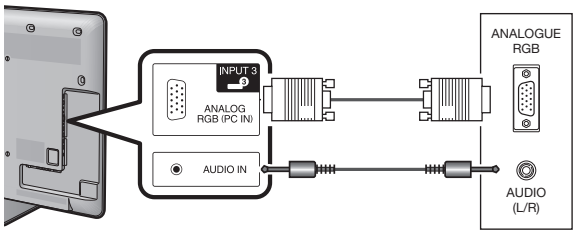
When using component cable (commercially available)



STB (Set Top Box)

Connecting a PC

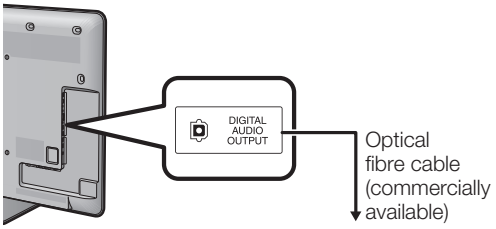
You can use the INPUT3 (PC) terminal when connecting to a PC. (See page 54.)



PC

Using Digital Audio Output

It is possible to output audio through the DIGITAL AUDIO OUTPUT terminal. PCM or Dolby Digital audio outputs from the terminal.



To optical digital input of external audio devices

NOTE

- The DIGITAL AUDIO OUTPUT terminal usually outputs the same audio from the speakers. (The audio of the content you are viewing is output from the terminal.)
- The DIGITAL AUDIO OUTPUT terminal does not output some signals, depending on devices and software.

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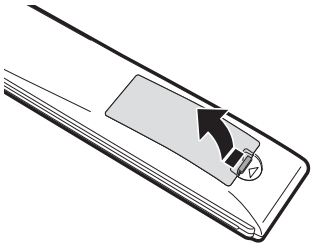
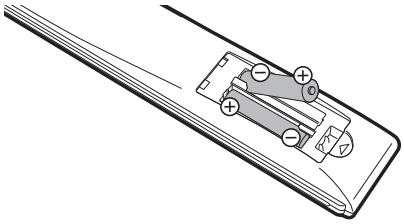
Inserting the batteries

Before using the TV for the first time, insert two “AAA” size alkaline batteries (supplied). When the batteries become depleted and the remote control fails to operate, replace the batteries with new “AAA” size alkaline batteries.

1 Open the battery cover.

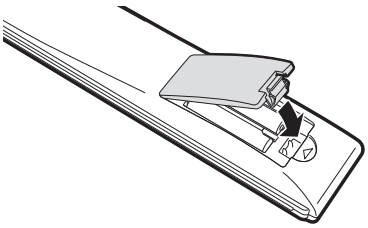


2 Insert the two supplied “AAA” size alkaline batteries.



- Place batteries with their terminals corresponding to the (+) and (−) indications in the battery compartment.

3 Close the battery cover.



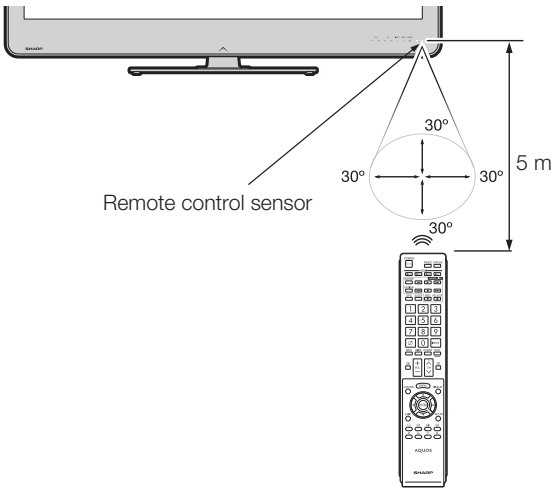
CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove the batteries from it.
- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

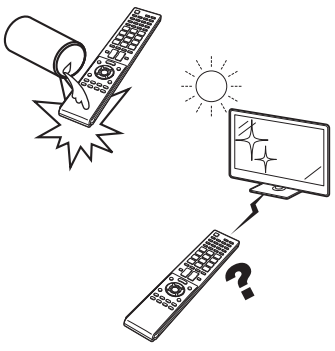
Using the remote control unit

Use the remote control unit by pointing it towards the remote sensor window.
Objects between the remote control unit and sensor window may prevent proper operation.



Cautions regarding the remote control unit

- Do not subject the remote control unit to shock.
  In addition, do not soak the remote control unit with liquids or place it in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight.
  The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote sensor window of the TV is under direct sunlight or strong lighting. In such cases, change the angle of the lighting or TV, or operate the remote control unit closer to the remote sensor window.



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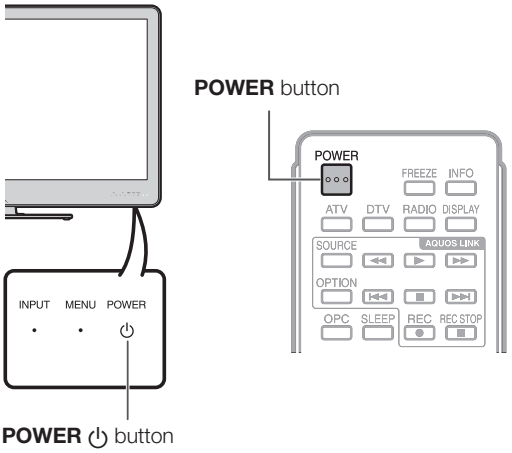
Turning the TV on/off



Turning on/off the power

• To turn on the power

Press **POWER** ⏻ on the TV. (After a few seconds, an image appears with sound.)

NOTE

- Wait more than five seconds until you press **POWER** ⏻ on the TV after inserting the power plug.

• To turn off the power

Switch it off by pressing **POWER** ⏻ on the TV.

Standby mode

• To standby mode

If the TV is switched on, you can switch it to standby by pressing **POWER** on the remote control.

• Switching on from standby

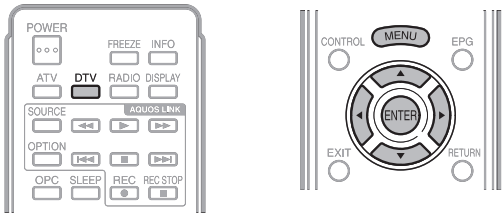
From standby, press **POWER** on the remote control.

NOTE

- If you are not going to use this TV for a long period of time, be sure to remove the AC cord from the AC outlet.
- Minor power is consumed when the unit is in standby mode.

Supplying electric power to the antenna

When you set-up the DTV antenna for the first time, or connect the antenna to a community antenna, you need to proceed to set the antenna by following this manual.



1. Press **DTV** to access DTV mode.
2. Press **MENU** and the MENU screen displays.
3. Press ◀/▶ to select “Setup”.
4. Press ▼/◀/▶ to select “View setting”.
5. Press ▲/▼ to select “Channel settings” and then press **ENTER**.
6. Press ▲/▼ to select “Antenna setup-DIGITAL” and then press **ENTER**.
7. Press ▲/▼ to select “Supply voltage” and then press **ENTER**.
8. Press ◀/▶ to select “On” and then press **ENTER**.

Selected item	Description
On	Select “On” when your antenna is set-up and connected independently. Typical supply voltage: 5V Typical supply current: 50mA
Off	Select “Off” when you do not need to supply voltage to your antenna, i.e. when your antenna is connected to a community antenna. (The factory default setting of this function is “Off”.)

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Initial auto installation

When the TV powers on for the first time after purchase, the initial auto installation wizard appears. Follow the menus and make the necessary settings one after another.

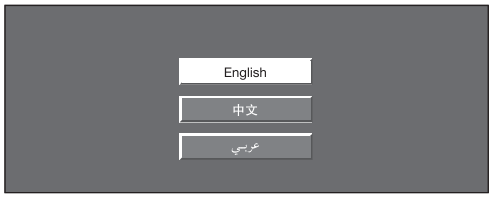
Confirm the following before turning on the power

- Is the antenna cable connected?
- Is the AC cord plugged in?

1 Press **POWER** ⏻ on the TV.

- The initial auto installation wizard appears.

2 Press ▲/▼ to select the desired language, and then press **ENTER**.



3 Press ◀/▶ to select “HOME” or “STORE”, and then press **ENTER**.

- HOME: “STANDARD” will be the default value for the “AV mode” setting.
- STORE: “DYNAMIC (Fixed)” will be the default value for the “AV mode” setting. If the “AV mode” is changed, the TV will automatically switch back to “DYNAMIC (Fixed)” when there is no further change to TV setting for 30 minutes. When selecting “STORE”, press ◀/▶ to select “Yes”or “No” to confirm.

4 Setting the country.
Press ▲/▼ to select your country or area, and then press **ENTER**.

- This setting screen only appears during the initial auto installation.

5 Press ◀/▶ to select “Digital search” or “Analogue search” and then press **ENTER**.

- When the country setting is set to “Australia”, only “Digital search” is available.

6 The TV searches for, sorts and stores all the receivable TV stations according to their settings and the connected antenna.

- To abort the initial auto installation in progress, press **RETURN**.

NOTE

- HOME mode: Settings are optimised for normal home viewing and energy efficiency.
- STORE mode: Settings are designed for maximum impact in retail store displays.
- To change the “STORE” mode to “HOME” mode, please refer to page 68 to reset the unit.
- If you turn off the power on the TV after performing step 4, the initial auto installation wizard does not appear. The auto installation function allows you to execute the auto installation again from the “Setup” menu. (See page 19.)
- The initial auto installation wizard will go off if you leave the TV unattended for 30 minutes before searching for channels in step 5.

Checking signal strength and channel strength

If you install a DTV antenna for the first time or relocate it, you should adjust the alignment of the antenna to receive a good reception while checking the antenna setup screen.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

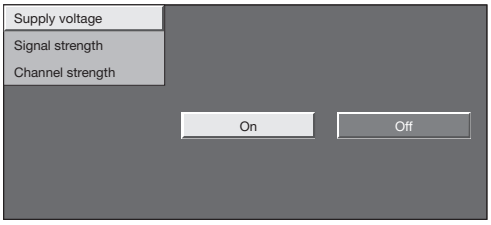
3 Press ▼/◀/▶ to select “View setting”.

4 Press ▲/▼ to select “Channel settings” and then press **ENTER**.

5 Press ▲/▼ to select “Antenna setup-DIGITAL”, and then press **ENTER**.

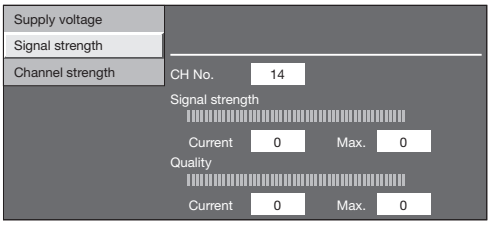
■ Power supply setting to antenna terminal

Press ◀/▶ to select “On” or “Off”.



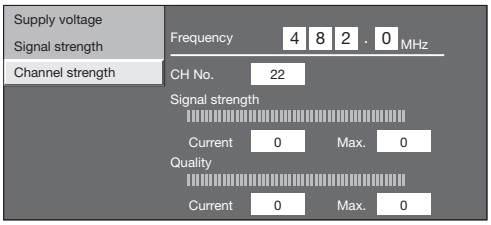
■ Checking signal strength

Press ▲/▼ to select “Signal strength”.



■ Checking channel strength

Press ▲/▼ to select “Channel strength”, and then press **ENTER**.



6 Position and align the antenna so that the maximum possible values for “Signal strength” and “Quality” are obtained.

NOTE

- The values of “Signal strength” and “Quality” indicate when to check the appropriate alignment of the antenna.

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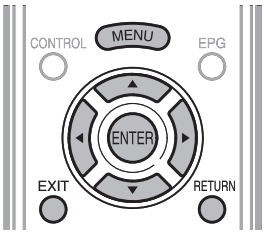
About Menu operations

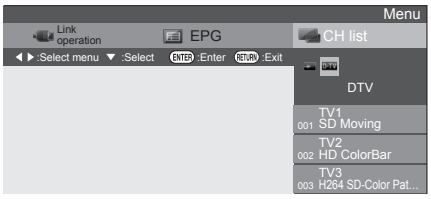
What is Menu?

- You need to bring up the On-Screen Display to perform settings for the TV. The On-Screen Display for the settings is called “Menu”.
- The Menu can be operated with the remote control unit.

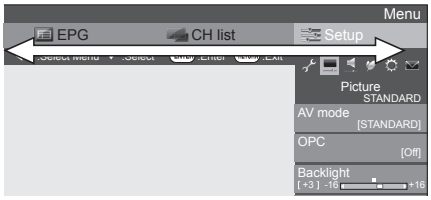
Basic Menu operations



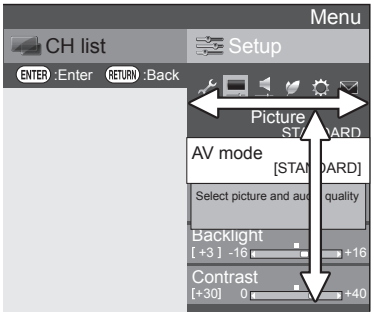
1 Press **MENU** and the MENU screen displays.



2 Press ◀/▶ to select the desired menu.



3 Press ▲/▼/◀/▶ to select the desired menu item.
Press **ENTER** to proceed if necessary.

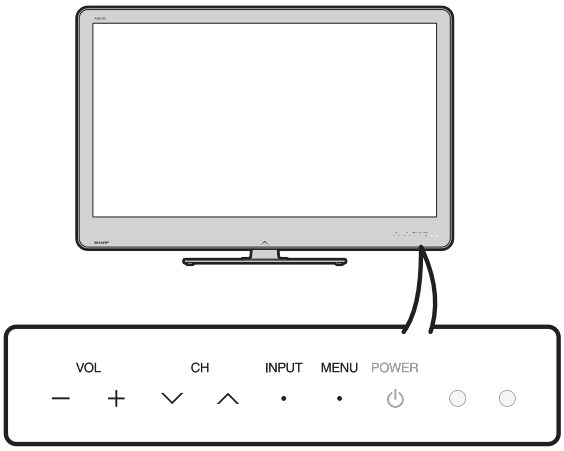


4 Press ▲/▼ or ◀/▶ to select the desired item or adjust the item to the desired level. Press **ENTER** if necessary.

5 Press **EXIT** or **MENU** to exit the MENU.
Press **RETURN** as necessary to return to the previous MENUs.

■ Using the control panel of the TV

You can also operate the Menu using the control panel of the TV.
Button operations on the control panel correspond to the ones on the remote control as shown below.



TV control panel buttons	Remote control buttons
INPUT	ENTER
CH ∧	▲
CH ∨	▼
VOL +	▶
VOL –	◀

NOTE

- Menu options differ in the selected input modes, but the operating procedures are the same.
- The screens in the operation manual are for explanation purposes (some are enlarged, others cropped) and may vary slightly from the actual screens.

About Guide Display

The operations differ depending on the functions and menu items. Refer to the guide display for the key buttons.

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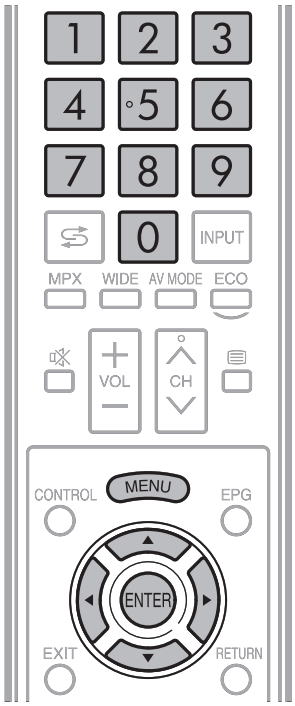
Watching TV

Setting channels automatically

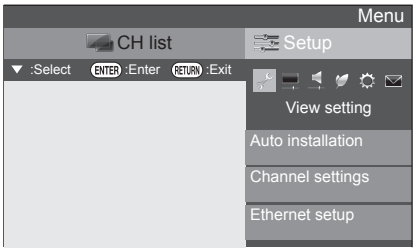
You can run auto installation again, even after setting up the preset channels.



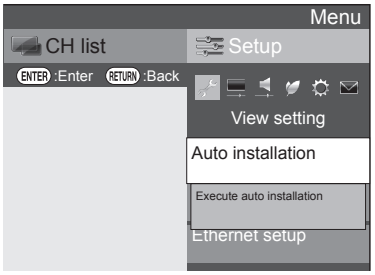
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “View setting”.



4 Press ▲/▼ to select “Auto installation”, and then press **ENTER**.



5 If you have already set the password, enter it here.

- See page 28 for setting a password.

– – – –

6 Press ◀/▶ to select “Yes”, and then press **ENTER**.

7 Press ▲/▼ to select the desired language listed on the screen, and then press **ENTER**.

Press ◀/▶ to select “Digital search” or “Analogue search”, and then press **ENTER**.

You do not need to do anything during the auto search.

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Selecting programmes

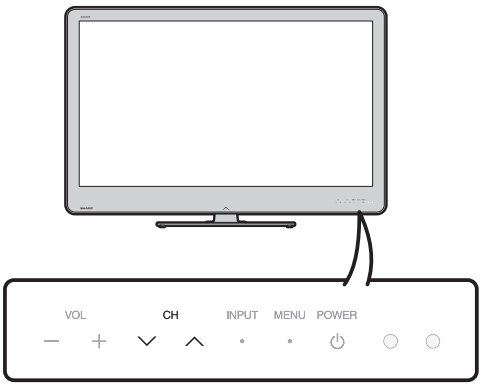
You can change channels in several ways.

Using CH ∧/∨ on the remote control unit

- Press **CH** ∧ to increase the channel number.
- Press **CH** ∨ to decrease the channel number.

NOTE

- **CH** ∧/∨ on the TV operates the same as **CH** ∧/∨ on the remote control unit.



Using 0 - 9 on the remote control unit

Select the channels directly by pressing buttons **0** to **9**.

EXAMPLE

To select a 1-digit channel (e.g. channel 2):
- Press **0**, followed by **2**.

To select a 2-digit channel (e.g. channel 12):
- Press **1**, followed by **2**.

To select a 3-digit channel (e.g. channel 123):
- Press **1**, followed by **2** and **3**.

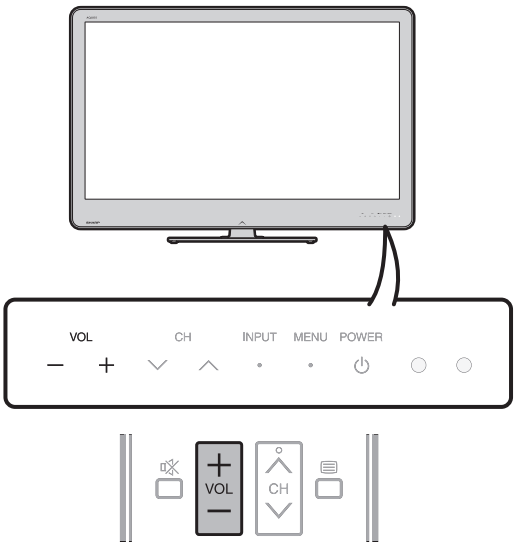
When viewing Teletext information

View a page directly which is 3-digit page number from 100 to 899 by pressing buttons **0** to **9**.

Channel display

(Example)

Adjusting the volume



Changing the volume

You can change the volume on the TV or on the remote control unit.
- To increase the volume, press **VOL** +.
- To decrease the volume, press **VOL** −.

NOTE

- "TV", "INPUT1", "INPUT2", "INPUT3" (PC), "INPUT4" (ARC), "INPUT5", "INPUT6", "INPUT7" and USB modes can store volume adjustment values separately.

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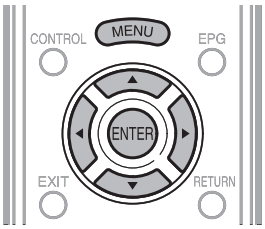
Setting channels to your preference

You can run the auto search procedure again at any time by accessing the “Setup” menu and “Programme setup”. Channels can be tuned automatically or manually.



Digital settings

You can reconfigure DTV services settings automatically or manually.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “View setting”.

4 Press ▲/▼ to select “Channel settings” and then press **ENTER**.

5 Press ▲/▼ to select “Programme setup”, and then press **ENTER**. If you have already set the password, enter it here.
- See page 28 for setting a password.

The “Digital setting” screen displays and then press **ENTER**.

6 Press ▲/▼ to select the desired menu item, and then press **ENTER**.

7 Press ◀/▶ to select “Yes”, and then press **ENTER**.

■ Additional search

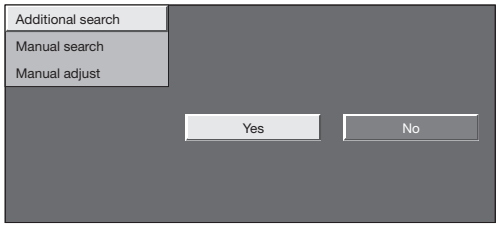
Use this menu to add new services automatically after auto installation has been completed.

■ Manual search

Add new services within a specified frequency band.
- Enter the frequency using **0 - 9** numeric buttons.

■ Manual adjust

Configure various settings for each service using the Colour (**R**, **G**, **Y**, **B**) buttons.



1 Press ▲/▼ to select the desired service.

2 Press the colour button on the remote control corresponding with the item you want to reconfigure.
- The ✔ mark indicates the operation is set to on. Each time the colour button is pressed, you can switch the corresponding operation on/off.

Buttons for Manual Adjust operation

Menu items	Remote control buttons	Description
Lock	**R**	When the service is locked, you must enter your password whenever you tune to the service.
CH Skip	**G**	Services with a ✓ mark are passed over when pressing ⋀/⋁ in the TV/remote control unit.
Delete	**Y**	The service is deleted from the list. Execute one of “Auto installation”, “Additional search” or “Manual search” to watch the deleted service again.
Sort	**B**	The item position of services can be sorted.

The item position of services can be sorted

① Press ▲/▼ to select the service whose item position you want to move, and then press **B**.

DTV	994	SIT 2	✔	✔
DTV	995	SIT 1	✔	✔

② Press ▲/▼ to move it to the desired position, and then press **ENTER**.

DTV	994	SIT 1	✔	✔
DTV	995	SIT 2	✔	✔

③ Repeat steps ① and ② until all desired service items are sorted.

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Manual setting for each channel (Analogue)

You can set some channel items manually. They are Search, Fine (TV frequency), Colour sys., Sound sys., Label, Skip and Lock.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “View setting”.

4 Press ▲/▼ to select “Channel settings” and then press **ENTER**.

5 The “Programme setup” screen displays, and then press **ENTER**. If you have already set the password, enter it here.

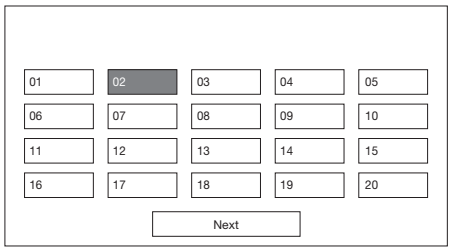
- See page 28 for setting a password.

The “Analogue setting” screen displays, and then press **ENTER**.

6 Press ▲/▼ to select “Manual Adjust”, and then press **ENTER**.

7 Press ◀/▶ to select “Yes”, and then press **ENTER**.

Programme Setup “Manual Adjust” menu



You can select one of the following settings.

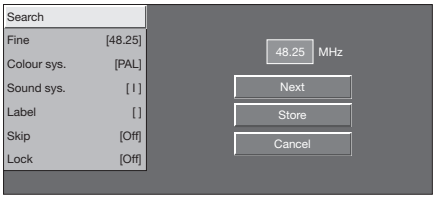
① **Search** (See this page.)
② **Fine** (See this page.)
③ **Colour sys.** (See this page.)
④ **Sound sys.** (See page 23.)
⑤ **Label** (See page 23.)
⑥ **Skip** (See page 23.)
⑦ **Lock** (See page 23.)

Search tuning

1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.

- The selected channel information displays.

2 Press ▲/▼ to select “Search”, and then press **ENTER**.



3 Press ▲/▼ to select item and press **ENTER**.

- **Next**: Search the next channel.
- **Store**: Memorise the current display channel.
- **Cancel**: Return to the previous screen. (The search result will not be stored.)

Fine tuning

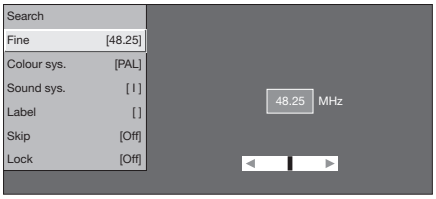
1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.

- The selected channel information displays.

2 Press ▲/▼ to select “Fine”, and then press **ENTER**.

3 Press ◀/▶ to adjust the frequency, and then press **RETURN** or **MENU**.

- Adjust while checking the background picture as a reference.



- Instead of the method above, you can also set by directly entering the frequency number of the channel with **0 - 9**.
- When setting a frequency on the “Fine” screen, the last figure of the frequency needs to be “0” or “5”.

EXAMPLE

- 179.25 MHz: Press **1** → **7** → **9** → **2** → **5** → **ENTER**.
- 49.25 MHz: Press **4** → **9** → **2** → **5** → **ENTER**.

Colour system

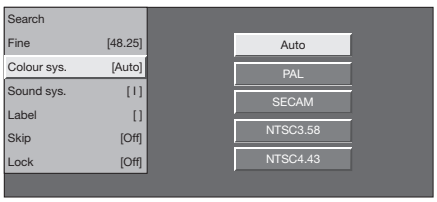
1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.

- The selected channel information displays.

2 Press ▲/▼ to select “Colour sys.” and then press **ENTER**.

- Receivable colour systems are listed.

Colour system menu



3 Press ▲/▼ to select the optimum colour system, and then press **ENTER**.

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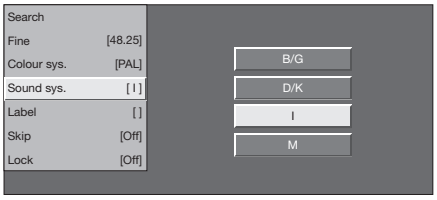
Manual setting for each channel (Analogue) (continued)

Sound system (Broadcasting system)

1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.
- The selected channel information displays.

2 Press ▲/▼ to select “Sound sys.”, and then press **ENTER**.
- Receivable sound systems (Broadcasting systems) are listed.

Sound system menu



3 Press ▲/▼ to select the optimum sound system, and then press **ENTER**.

NOTE
- Check the sound system if the sound output were not correct.

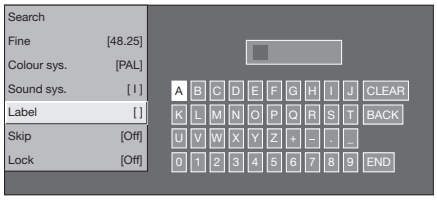
Labelling channels

You can change individual channel names.

1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.
- The selected channel information displays.

2 Press ▲/▼ to select “Label”, and then press **ENTER**.
- The alphabet and numbers are listed.

Labelling menu


Search
Fine [48.25]
Colour sys. [PAL]
Sound sys. [I]
Label [ ]
Skip [Off]
Lock [Off]
A B C D E F G H I J CLEAR
K L M N O P Q R S T BACK
U V W X Y Z + – . _
0 1 2 3 4 5 6 7 8 9 END

3 Press ▲/▼/◀/▶ to select each character of the new name for the channel, and then press **ENTER**.

4 Repeat until the name is fully spelt out.
- The name can be 5 characters or less. Select “END” to set the channel name.

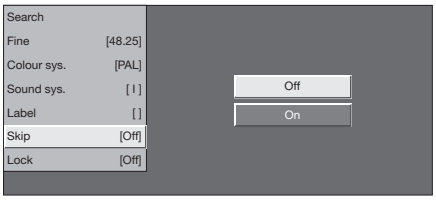
Skipping channels

Channels with “Skip” set to “On” are passed over when using **CH** ∧/∨ even if selected while watching the image from the TV.

1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.
- The selected channel information will be displayed.

2 Press ▲/▼ to select “Skip”, and then press **ENTER**.
- Skip menu displays.

Skip menu



3 Press ▲/▼ to set “Skip” to “On”, and then press **ENTER**.

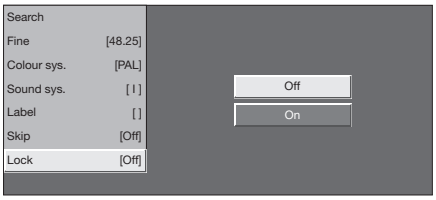
Setting the child lock

You can block the viewing of any channel.

1 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **ENTER**.
- The selected channel information will be displayed.

2 Press ▲/▼ to select “Lock”, and then press **ENTER**.
- Child lock menu will be displayed.

Lock menu



3 Press ▲/▼ to set “Lock” to “On”, and then press **ENTER**.

NOTE
- See page 28 for setting a password.
- If “Lock” is set to “On” for a channel, “Child lock has been activated” is displayed when you select the channel, and the image and sound of the channel is blocked.
- When pressing **RETURN** while “Child lock has been activated” is displayed, password input menu will be displayed. Inputting the correct password lifts the child lock temporarily until the power is turned off.

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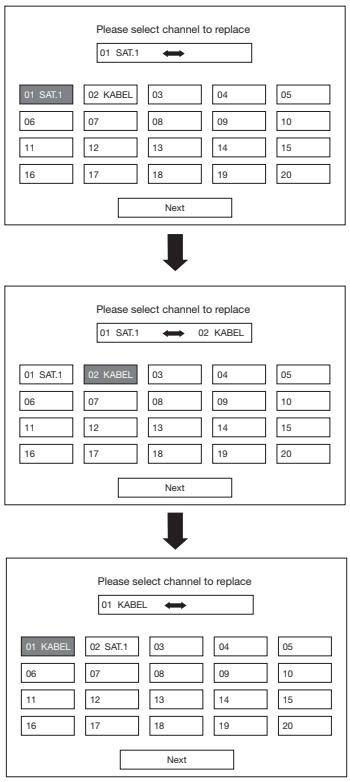
Sorting programmes

Channel positions can be sorted freely.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Channel settings” and then press **ENTER**.
5. The “Programme setup” screen displays, and then press **ENTER**. If you have already set the password, enter it here.
   - See page 28 for setting a password.

   The “Analogue setting” screen displays, and then press **ENTER**.
6. Press ▲/▼ to select “Sort”, and then press **ENTER**.
7. Press ◀/▶ to select “Yes”, and then press **ENTER**.
8. Press ▲/▼/◀/▶ to select the channel you want to move, and then press **ENTER**.
9. Press ▲/▼/◀/▶ to move it to the desired position, and then press **ENTER**.
10. Repeat the steps 8 and 9 until all desired channels are sorted.

Sort menus


Please select channel to replace
01 SAT.1
01 SAT.1 02 KABEL 03 04 05
06 07 08 09 10
11 12 13 14 15
16 17 18 19 20
Next
Please select channel to replace
01 SAT.1 02 KABEL
01 SAT.1 02 KABEL 03 04 05
06 07 08 09 10
11 12 13 14 15
16 17 18 19 20
Next
Please select channel to replace
01 KABEL
01 KABEL 02 SAT.1 03 04 05
06 07 08 09 10
11 12 13 14 15
16 17 18 19 20
Next

Erasing programmes

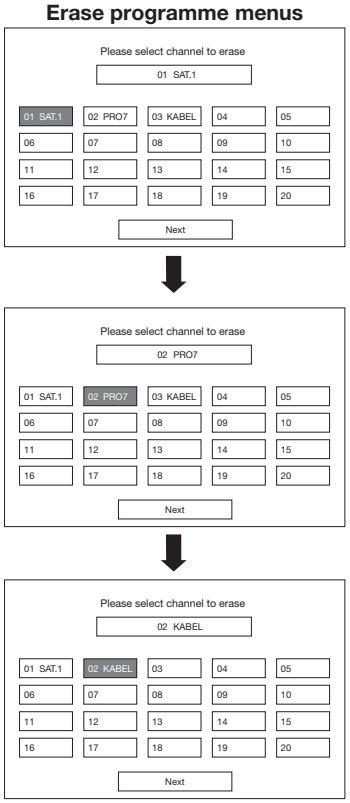
The individual programme can be erased.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Channel settings” and then press **ENTER**.
5. The “Programme setup” screen displays, and then press **ENTER**. If you have already set the password, enter it here.
   - See page 28 for setting a password.

   The “Analogue setting” screen displays, and then press **ENTER**.
6. Press ▲/▼ to select “Erase programme”, and then press **ENTER**.
7. Press ◀/▶ to select “Yes”, and then press **ENTER**.
8. Press ▲/▼/◀/▶ to select the channel you want to erase, and then press **ENTER**.
   - A message screen pops up.
9. Press ◀/▶ to select “Yes”, and then press **ENTER**.

   All the subsequent programmes move up.
10. Repeat the steps 8 and 9 until all desired channels are erased.

Erase programme menus



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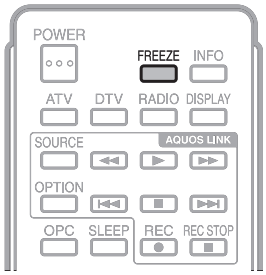
Useful viewing functions

Freezing the image

Allows you to capture and freeze one frame from a moving image that you are watching.



1 Press **FREEZE**.
- Captures one frame from a moving image.

2 Press **FREEZE** again to cancel the function.

Using Freeze on the menu screen

1 Press ◀/▶ to select “Setup”.

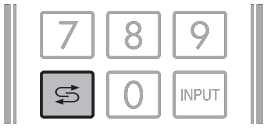
2 Press ▼/◀/▶ to select “Option”.

3 Press ▲/▼ to select “Option for view”, and then press **ENTER**.

4 Press ▲/▼ to select “Freeze”, and then press **ENTER**.

NOTE
- The still image automatically goes out after 30 minutes.

Returning to the previously selected channel



Press ⇆ to switch the currently tuned channel to the previously tuned channel.
Press ⇆ again to switch back to the currently tuned channel.
Press ⇆ to toggle between the currently selected input source and the previously selected one.
Press ⇆ to return to the previous page in teletext mode.

Muting the audio temporarily

Using Mute (🔇) on the remote control unit

🔇 mutes the current sound output.

1 Press 🔇.
- The sound is silenced.
- “🔇” is displayed while the mute function is on.

Mute

2 Press 🔇 again within 30 minutes to cancel the mute.
- Before 30 minutes, the volume level returns to the previous setting.

NOTE
- **Mute will be cancelled after 30 minutes. However, the TV will not suddenly output loud sound as the volume level will be set to 0 automatically. Increase the volume level by pressing VOL+.**

Outputting only audio

When listening to music from a music programme, you can set the display off and enjoy audio only.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “ECO”.

4 Press ▲/▼ to select “Audio only”, and then press **ENTER**.

5 Press ▲/▼ to select “On”, and then press **ENTER**.

Selected item	Description
On	Audio is output without screen image.
Off	Both screen images and audio are output.

NOTE
- When you make operations that change the picture on the TV such as by changing the input source, the “Audio only” function is set to “Off”.

Quick start

You can reduce the TV’s start-up time after turning on the power with the remote control unit.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “View setting”.

4 Press ▲/▼ to select “Quick start”, and then press **ENTER**.

5 Press ▲/▼ to select “On”, and then press **ENTER**.

Selected item	Description
On	The TV quickly starts up from standby, 16 W or more of power consumption is required during standby.
Off	Power consumption is less than 1W.

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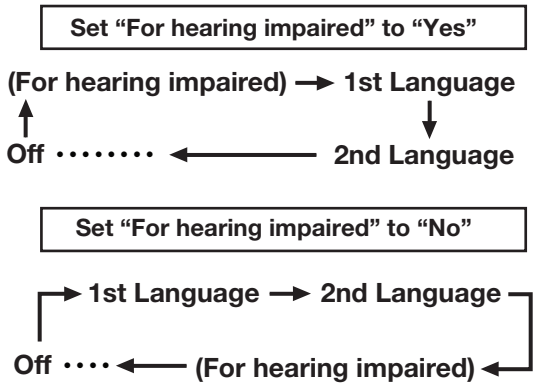
Menu language settings

You can also select a language from setup menu. Select from among 3 languages: English, Simplified Chinese and Arabic.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Language”, and then press **ENTER**.
5. Press ▲/▼ to select the desired language listed on the screen, and then press **ENTER**.

Switching subtitle languages

Each time you press 💬 on the remote control, the subtitle switches when the broadcast contains subtitle information.



Selecting the Language

Set up two preferred subtitle languages to display if the subtitle languages are available.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Individual setting” and then press **ENTER**.
5. Press ▲/▼ to select “Subtitle”, and then press **ENTER**.
6. Press ▲/▼ to select “1st language” or “2nd language”, and then press **ENTER**.
7. Press ▲/▼ to select the desired language, and then press **ENTER**.

NOTE

- If subtitles for the selected language are not included in a received broadcast, subtitles will not be shown for that language.

Displaying subtitles for the hearing impaired

You can display subtitles for the hearing impaired in the broadcast.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Individual setting” and then press **ENTER**.
5. Press ▲/▼ to select “Subtitle”, and then press **ENTER**.
6. Press ▲/▼ to select “For hearing impaired”.
7. Press ◀/▶ to select “Yes”.

Digital audio language

Set up to three preferred multi audio languages to display if the audio languages are available.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Individual setting”, and then press **ENTER**.
5. Press ▲/▼ to select “Digital audio language”, and then press **ENTER**.
6. Press ▲/▼ to select “1st Language”,“2nd Language” or “3rd Language”, and then press **ENTER**.
7. Press ▲/▼ to select the desired language, and then press **ENTER**.

NOTE

- This function depends on audio language information from broadcasters.
- If audio for the selected language is not included in a received broadcast, audio will not be output for that language.

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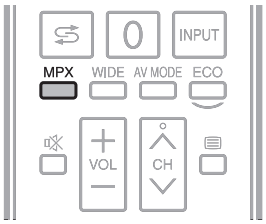
Switching the analogue audio format

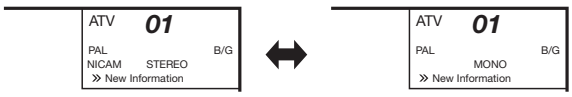
You can switch between multiple audio modes when watching a multiple audio or stereo broadcast programme.



In the NICAM TV broadcasts

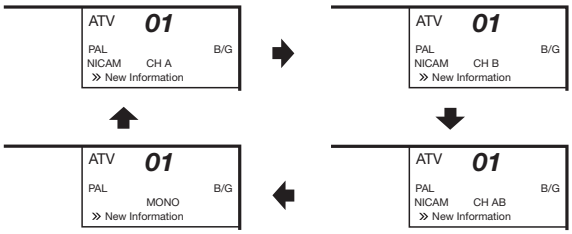
When receiving a stereo signal
Each time you press **MPX**, the mode switches between NICAM STEREO and MONO.

Stereo mode



When receiving a bilingual signal
Each time you press **MPX**, the mode switches among NICAM CH A, NICAM CH B, NICAM CH AB and MONO.

Bilingual mode



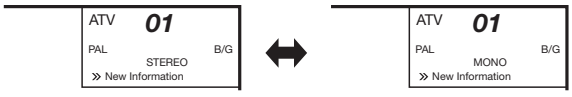
When receiving a monaural signal
Each time you press **MPX**, the mode switches between NICAM MONO and MONO.

Monaural mode

In the TV mode of A2 TV broadcasts

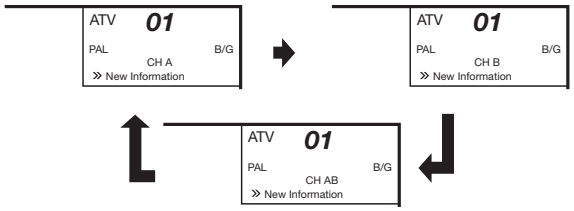
When receiving a stereo signal
Each time you press **MPX**, the mode switches between STEREO and MONO.

Stereo mode



When receiving a bilingual signal
Each time you press **MPX**, the mode switches among CH A, CH B and CH AB.

Bilingual mode



When receiving a monaural signal
When you press **MPX**, "MONO" displays.

Monaural mode

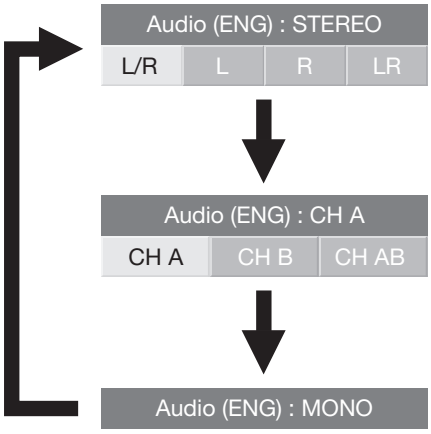
NOTE

- "BBC2", "99" and "PAL" are tentative network name, channel and colour system.

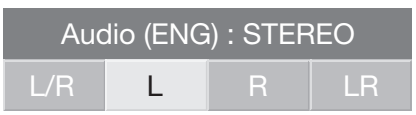
Switching the digital audio format

If multi sound modes are received, each time you press **MPX** the mode switches as follows.

(Example)



■ Press ◀/▶ to select L or R sound when the STEREO or DUAL MONO screen is displayed.



NOTE

- The sound mode screen disappears in 6 seconds.
- Selectable items vary depending on the received broadcasts.

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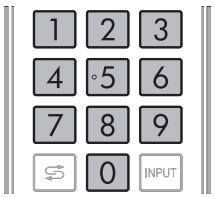
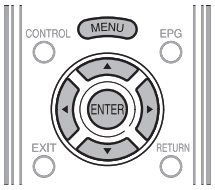
Password setting for the child lock

Allows you to use a password to protect certain settings from being accidentally changed.





Setting a password

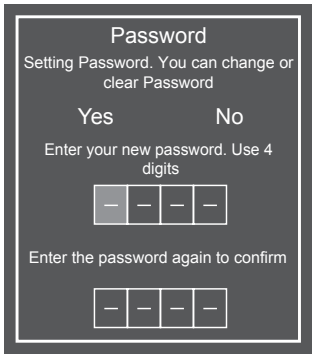
Register a 4-digit password number to use the Child Lock function.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Individual setting” and then press **ENTER**.
5. Press ▲/▼ to select “Password”, and then press **ENTER**.
6. If you already set the password, enter it here.

   – – – –
7. Press ◀/▶ to select “Yes”, and then press **ENTER**.

Password
Setting Password. You can change or clear Password
Yes
No
Enter your new password. Use 4 digits
– – – –
Enter the password again to confirm
– – – –

8. Enter the 4-digit number as a password using **0** - **9**.


Password
Setting Password. You can change or clear Password
Yes
No
Enter your new password. Use 4 digits
– – – –
Enter the password again to confirm
– – – –

9. Enter the 4-digit number as in step 8 to confirm.
10. Press **ENTER** to complete.

NOTE

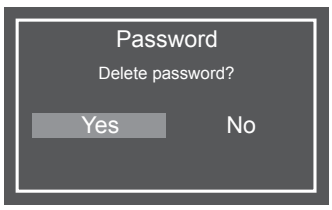
- To view a locked channel (Lock setting in Programme setup “Manual adjust” is set to “On”), you must enter a password. (See page 23.) When you select a locked channel, a password prompt message pops up. Press **RETURN** to display the password input window.

Deleting the password

Allows you to clear your password.

1. Repeat steps 1 to 5 in **Setting a password**.
2. Enter the password.

   – – – –
3. Press ◀/▶ to select “No”, and then press **ENTER**.
4. Press ◀/▶ to select “Yes”, and then press **ENTER** to delete the password.



NOTE

- **As a precautionary measure, make a note of your password on the back of this operation manual, cut it out and keep it in a safe place that children cannot reach. (See page 75.)**
- This function is only available for TV input mode.
- To relock a channel which has been temporarily unlocked by inputting the correct password, turn power off and then on again.

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Parental rate

This function allows TV channels to be restricted. It prevents children from watching violent or sexual scenes that may be considered inappropriate.

1. Repeat steps 1 to 4 in **Setting a password**.
2. Press ▲/▼ to select “Parental rating”, and then press **ENTER**.
3. Press ▲/▼ to select your desired rating, and then press **ENTER**.

Selected item	Description
No block (-)	Cancel the blocking.
Age 4-18 years	Select desired age to block. (Example) If age 14 is selected, programmes rated for ages of 15 or more are blocked.
General and above (G)	Content is not offensive to most viewers.
Parental guidance and above (PG)	Content is such that parents may not want their children to view the programme.
Mature and above (M)	Mature audience only. This programme is specifically designed to be viewed by adults and therefore may be unsuitable for children under 15.
Mature adult and above (MA)	Mature adult only. This programme is specifically designed to be viewed by adults and therefore may be unsuitable for children under 15.
Adult violence and above (AV)	Not for children under age 15. Strong elements of sex and/or violence.
Restricted and above (R)	Not for children under age 18. Strong elements of sex and/or violence.

Programme title display

This function allows you to display programme information on the screen including the title and airtime by tuning a channel.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “Screen effect” and then press **ENTER**.
5. Press ▲/▼ to select “Programme title display”.
6. Press ◀/▶ to select “Yes”.

NOTE

- The Programme title display function is only available for the DTV mode.

Key lock

This function allows you to lock the buttons on the TV or remote control in order to prohibit children from changing the channel or volume.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “Key lock”, and then press **ENTER**.
5. Press ▲/▼ to select “RC Control Lock” or “Button Control Lock”, and then press **ENTER**.
6. Press ◀/▶ to select “Yes”, and then press **ENTER**.

Selected item	Description
Off	Unlock the buttons.
RC Control Lock	The operation with remote control is blocked.
Button Control Lock	The operation with main unit buttons is blocked.

NOTE

- You cannot set both “RC Control Lock” and “Button Control Lock” at the same time.

■ Cancelling the lock

To cancel “RC Control Lock” follow the below steps using the TV control panel buttons on the TV.

1. Press **MENU** on the TV and **VOL +/–** to select “Setup”.
2. Press **CH**⋁ and **VOL +/–** to select “Option”.
3. Press **CH**⋀/⋁ to select “Key lock” and then press **INPUT**.
4. Press **CH**⋀/⋁ to select “Off” and then press **INPUT**.

NOTE

- See page 18 for the functions of the TV control panel buttons.
- **To cancel “Button Control Lock”, use the remote control.**

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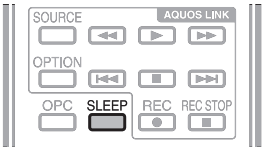
Energy conservation settings

Auto power-off at a designated time

This function is conveniently used when, for instance, going to bed while watching TV.



1 Press **SLEEP**.

- Remaining time displays when sleep timer has been set.

Sleep timer: Remain 2 hr. 00 min.

2 Each time you press **SLEEP**, the remaining time switches as shown below.

0 hr. 30 min. → **1 hr. 00 min.** → **1 hr. 30 min.**
↑ ↓
Off ← **2 hr. 30 min.** ← **2 hr. 00 min.**

Using Sleep timer on the menu screen

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “ECO”.

4 Press ▲/▼ to select “Sleep timer”, and then press **ENTER**.

5 Press ▲/▼ to select “Change”, and then press **ENTER**.

6 Press ▲/▼ to select the desired item, and then press **ENTER**.

NOTE

- When the time has been set, countdown automatically starts.
- Five minutes before the preset of time expires, the remaining time displays each minute.
- Select “Off” by pressing **SLEEP** to cancel the sleep timer.

ECO picture control

This function automatically detects the image source and decreases the power consumption while keeping the brightness of the image unchanged.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “ECO”.

- ECO menu displays.

4 Press ▲/▼ to select “ECO picture control”.

5 Press ◀/▶ to select “On” or “Off”.

NOTE

- This function does not work when “AV mode” is set to “DYNAMIC (Fixed)” or “Auto”.
- This function does not work when “Energy save” is set to “Standard” or “Advanced”.

Energy save

This function enables you to automatically reduce the backlight brightness in order to decrease the power consumption and increase the backlight life span.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “ECO”.

- ECO menu displays.

4 Press ▲/▼ to select “Energy save”, and then press **ENTER**.

5 Press ▲/▼ to select “Standard” or “Advanced”, and then press **ENTER**.

Selected item	Description
Standard	Reduces the backlight brightness.
Advanced	Reduces the backlight brightness more than “Standard”.
Off	The backlight brightness is the same value of your settings in the selected “AV mode ”.

NOTE

- You can also go to “Energy save” mode by pressing **ECO**.

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Energy conservation settings (Continued)

Auto power-off after the end of broadcast

You can set the TV to automatically power off in about 15 minutes after the TV goes into a state of receiving no programme signals, such as the end of a broadcast day.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “ECO”.
4. Press ▲/▼ to select “No signal off”.
5. Press ◀/▶ to select “Enable”.
   - Five minutes before the power shuts down, the remaining time displays every minute.

NOTE

- “Disable” is the factory preset value.
- When a TV programme finishes, and the TV receives signal input, this function may not operate.

Auto power-off when there are no operations performed

You can set the TV to automatically power off when no TV operation is performed for 30 minutes or more than 3 hours.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “ECO”.
4. Press ▲/▼ to select “No operation off”, and then press **ENTER**.
5. Press ▲/▼ to select “30 min.” or “3 hr.”.
   - Five minutes before the power shuts down, the remaining time displays every minute.

NOTE

- “Disable” is the factory preset value.

Picture size settings

Selecting the Wide Screen Signalling (WSS) picture size automatically

WSS allows a television to switch automatically among the different screen formats.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “WSS”.
5. Press ◀/▶ to select “On” or “Off”.

NOTE

- Try to set WIDE mode if an image does not switch to the correct screen format. When the broadcast signal contains no WSS information, the function will not work even if enabled.

Selecting the Wide Screen Signalling (WSS) picture size manually

The WSS signal has 4:3 auto-switching that allows you to select between Panorama and Normal.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “4:3 Mode”, and then press **ENTER**.
5. Press ▲/▼ to select “Panorama” or “Normal”, and then press **ENTER**.

WSS signal 4:3 screen

4:3 mode “Panorama”

4:3 mode “Normal”

Selected item	Description
Panorama	Wide image without side bars
Normal	Normal range keeping 4:3 or 16:9 aspect ratio

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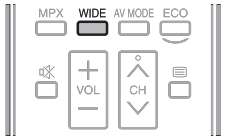
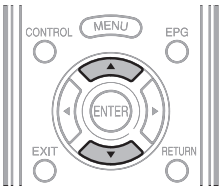
Selecting the picture size manually

Manual Selection

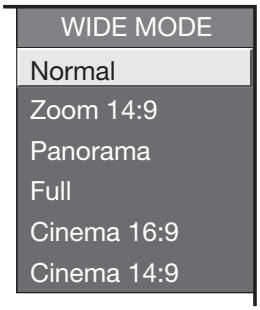
You can select different picture sizes that account for the kind of each picture.





1 Press **WIDE**.

- The WIDE MODE menu displays.
- The menu lists the wide mode options selectable for the type of TV/video signal currently received.



2 Press **WIDE** or ▲/▼ while the WIDE MODE menu displays on the screen.

- As you toggle down the options, each mode is immediately reflected on the TV.

Auto Selection

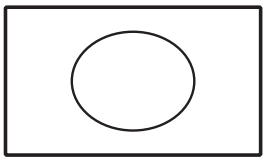
If you set “WSS” and “4:3 Mode” in the Setup menu on page 31, the optimum WIDE mode is automatically chosen for every broadcast containing the WSS information.

“WSS” menu

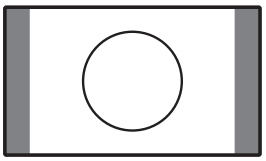
To enable Auto Selection, set “WSS” in the Setup menu to “On”. (See page 31.)

“4:3 Mode” menu

To set the type of the wide screen, select “Panorama” or “Normal” in the 4:3 Mode menu. (See page 31.)



4:3 Mode set to “Panorama”

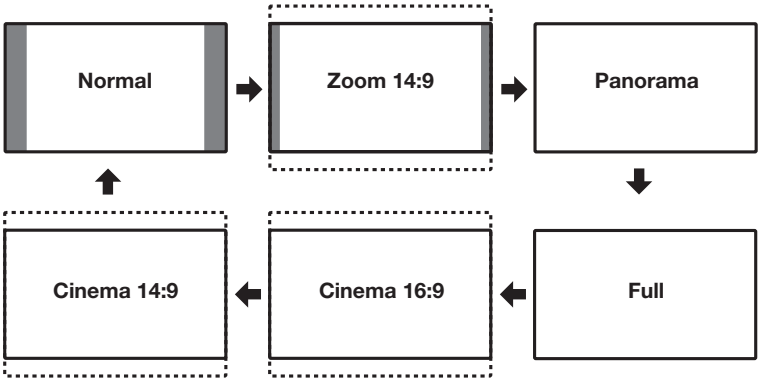


4:3 Mode set to “Normal”

NOTE

- “WSS” is also available in DTV mode.
- If the broadcast signal contains no WSS information, Auto Selection will not function even when the WSS option is enabled.
- You can also use Wide mode from the menu screen.

Selected item	Description
Normal	For 4:3 “standard” pictures. A side bar appears on each side.
Zoom 14:9	For 14:9 letterbox pictures. A thin side bar appears on each side, and you may also see bars on the top and bottom with some programmes.
Panorama	In this mode the picture is progressively stretched toward each side of the screen.
Full	For 16:9 squeeze pictures.
Cinema 16:9	For 16:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.
Cinema 14:9	For 14:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.
Dot by Dot	Display an image with the same number of pixels on the screen (only when receiving 1080i / 1080p signal).
Underscan	Display with an Underscan image only when receiving a 720p signal. Display with the High-Definition image adjusted optimally. Noise may appear on the edge of the screen with some programmes.
Auto	Keeps the original aspect ratio and enlarges the picture as much as possible.
Original	Keeps the original aspect ratio and size.



NOTE

- Some picture sizes may not be displayable depending on the input signal.
- “Auto” and “Original” can be selected only during video playback in “Video mode” of USB media on page 63.

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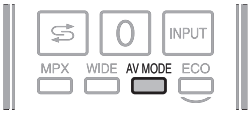
Selecting a preset AV MODE

The “AV mode” function enables you to select appropriate settings for audio and video to account for the system environment which can vary due to factors like room brightness, type of programme watched or the type of image input from external equipment.

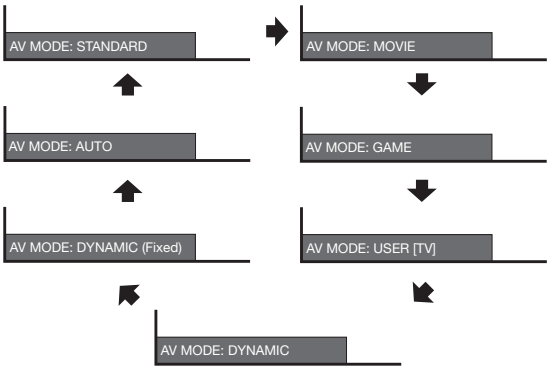
Using AV MODE on the remote control unit



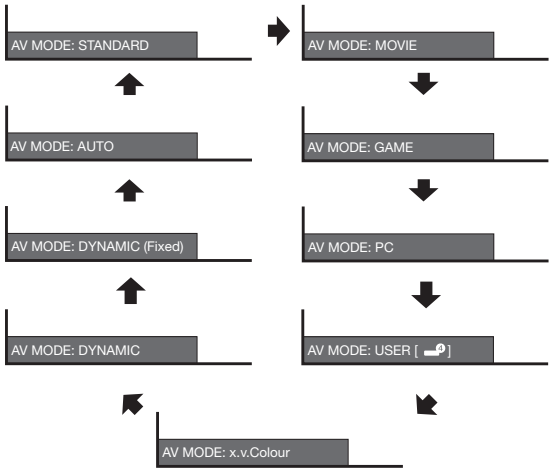
1 Press **AV MODE**.
- Present AV MODE displays.

2 Press **AV MODE** again before the mode displayed on the screen disappears.
- The mode changes as shown below.

TV input mode



External input mode



Using “AV mode” on the menu screen

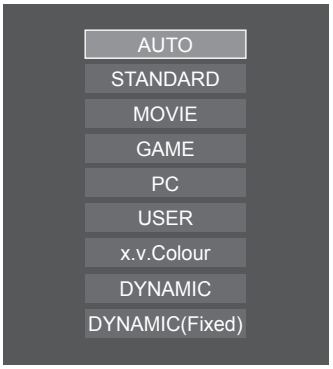
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “Picture”.

4 Press ▲/▼ to select “AV mode”, and then press **ENTER**.

5 Press ▲/▼ to select the desired item, and then press **ENTER**.



Selected item	Description
AUTO	The TV automatically sets the appropriate selection from the “AV mode” menu depending on the lighting conditions and the type of programme watched.
STANDARD	For a highly defined image in a normally bright room
MOVIE	For a movie
GAME	Lowers image brightness for easier viewing.
PC*	For PC. (Available only when inputting a PC signal.)
USER	Allows the user to customise settings as desired. You can set the mode for each input source.
x.v.Colour**	Produce realistic colour on the TV screen unlike any other signal.
DYNAMIC	For a clear-cut image emphasising high contrast for sports viewing.
DYNAMIC (Fixed)	Changes the image and sound settings to the factory preset values. No adjustments are allowed.

NOTE
- You can select a different “AV mode” item for each input mode. (For example, select “STANDARD” for TV input and “DYNAMIC” for VIDEO input.)
- The item marked with * is available only when selecting “INPUT4”, “INPUT5”, “INPUT6”, “INPUT7” or “INPUT3” (PC) from the “INPUT” in the “CH list” menu.
- The item marked with ** is available only when accepting an “x.v.Colour” signal through an HDMI terminal.

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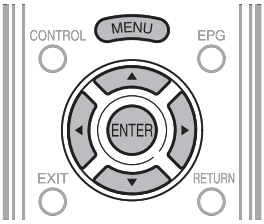
Manual picture settings

Picture adjustment

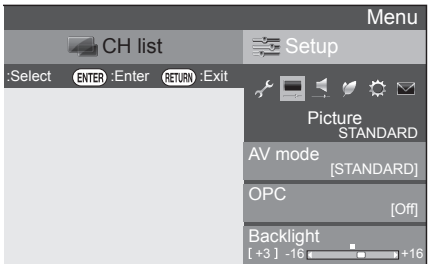
You can adjust the picture to your preference.
Follow the steps to adjust the picture.



1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “Picture”.



4 Press ▲/▼ to select the desired menu item.
Press **ENTER** to proceed if necessary.

5 Press ▲/▼ or ◀/▶ to select the desired item or adjust the item to the desired level. Press **ENTER** if necessary.

NOTE

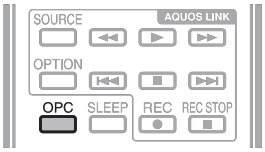
- For resetting all adjustment items to factory preset values, press▲/▼ to select “Reset”, press **ENTER**, press ▲/▼ to select “Yes”, and then press **ENTER**.
- When “Backlight” is adjusted, “OPC” is set to “Off”.

Selected item	◀button	▶button
OPC	Sets whether or not the screen brightness is automatically adjusted according to the lighting condition in the room. (OPC setting: See this page.)	
Backlight	The screen dims	The screen brightens
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Colour	For less colour intensity	For more colour intensity
Tint	Skin tones become purplish	Skin tones become greenish
Sharpness	For less sharpness	For more sharpness
Advanced	For finer picture adjustments. (See page 35).	
Reset	Resets all picture adjustment items to the factory preset values.	

■ OPC (Optical Picture Control) setting

You can set the TV to automatically adjust the screen to suitable backlight brightness according to the lighting conditions.

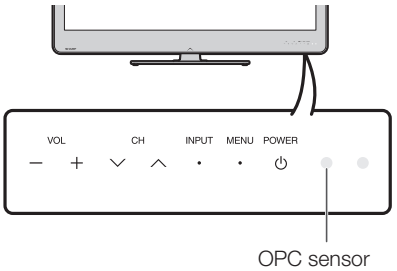
Using OPC on the remote control unit



Press **OPC** to switch the OPC function on and off.

Using OPC on the menu screen

Selected item	Description
Off	The brightness is fixed at the value set in “Backlight” (See this page).
On	Automatically adjusts
On: Display	Displays the OPC effect on the screen while adjusting the brightness of the screen.



NOTE

- Make sure no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.

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Advanced picture settings

The advanced settings enable you to set the picture adjustment in more detail. There are twelve options you can choose from.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Picture”.
4. Press ▲/▼ to select “Advanced”, and then press **ENTER**.
5. Press ▲/▼ to select the desired menu, and then press **ENTER**.

C.M.S.-hue

This function adjusts the hue of a selected colour using a six-colour adjustment system.

C.M.S.-saturation

This function increases or decreases the saturation of a selected colour using a six-colour adjustment system.

C.M.S.-value

This function makes the image brighter or darker depending on the value of the setting.

Colour temp. (Colour temperature)

Adjusts the colour temperature to give the best white image.

Selected item	Description
High	White with bluish tone.
Mid-High	Intermediate tone between “High” and “Middle”.
Middle	Natural tone.
Mid-Low	Intermediate tone between “Middle” and “Low”.
Low	White with reddish tone.
R/G/B Gain (LO), R/G/B Gain (HI)	Adjusts the white balance by changing the value of each item.

Fine motion advanced

“Fine motion advanced” technology provides superior solutions for digital display picture quality removing motion blur (“High”, “Low”, “Off”).

NOTE

- This effect is greater on fast moving images.
- “Fine motion advanced” will have no effect in the following cases.
  1) The type of signal received is a PC signal.
  2) An OSD is being displayed.
  3) Teletext is activated.
- If images appear blurred, set the “Fine motion advanced” to “Off”.

Gamma adjustment

Adjust mid-level brightness. The adjustment range of the gamma can be set to a maximum of +2 and a minimum of -2 by pressing ◀ or ▶.

Film mode

Automatically detects a film-based source (originally encoded at 24/25 frames/second, depending on the vertical frequency), analyses it then recreates each still film frame for high-definition picture quality.

Selected item	Description
Advanced (High)	Display moving picture more smoothly with high quality.
Advanced (Low)	Display moving picture smoothly with high quality.
Standard	Display every picture frame in equal time, feeling like watching in cinema.
Off	Film mode off.

NOTE

- Film mode is not selectable depending on the input signal type.

Active contrast

Automatically adjusts the contrast of an image according to the scene.

DNR (Digital Noise Reduction)

Reduces noise on screen and produces a clearer video image. (“Auto”, “High”, “Middle”, “Low”, “Off”).

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Advanced picture settings (Continued)

3D-Y/C

Provides high quality images with minimal dot crawl and cross colour noise.

Selected item	Description
Standard	Normal adjustment
Fast	For movie image
Slow	For still image

NOTE

- 3D-Y/C is not selectable depending on the input signal type.
- 3D-Y/C may not operate depending on the input signal type or noisy input signal.

Monochrome

When set to “On”, images are displayed in monochrome.

Range of OPC

The brightness level range of the OPC sensor’s automatic adjustments can be set according to your preferences. The adjustment range of the OPC sensor can be set to a maximum of +16 and a minimum of -16.

Selected item	Description
Max.	-16 through +16
Min.	-16 through +16

NOTE

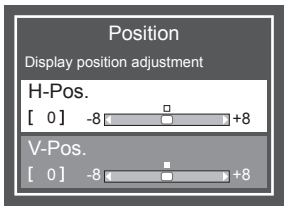
- This function is available only when the OPC setting is set to On or On: Display.
- The maximum setting cannot be set to a smaller number than the minimum setting.
- The minimum setting cannot be set to a bigger number than the maximum setting.
- The maximum and minimum settings cannot be set to the same number.
- Depending on the brightness of the surrounding light, the OPC sensor might not operate if the adjustment range is small.

Other picture settings

Adjusting the image position

For adjusting a picture's horizontal and vertical position.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “Screen effect” and then press **ENTER**.
5. Press ▲/▼ to select “Position”, and then press **ENTER**.
6. Press ▲/▼ to select “H-Pos.” or “V-Pos.”.



Selected item	Description
H-Pos.	Centres the image by moving it to the left or right.
V-Pos.	Centres the image by moving it up or down.

7. Press ◀/▶ to adjust the item to your desired position.

NOTE

- For resetting all adjustment items to the factory preset values, press ▲/▼ to select “Reset”, and then press **ENTER**.
- **Adjustments are stored separately according to input source.**
- Images may not be displayed properly depending on the settings and/or signals.

Game play time

This function displays the elapsed game time so you do not lose track of the time.
To display the elapsed time, select “GAME” under “AV mode” for the input mode of the terminal connected to the game console before starting the game.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “Game play time”.
5. Press ◀/▶ to select “On”.

Selected item	Description
On	The elapsed time is displayed every 30 minutes when you switch to GAME mode in external input mode.
Off	No adjustment

NOTE

“Game play time” is reset after performing the following operations:
1. When toggling the input.
2. When changing “AV mode”.

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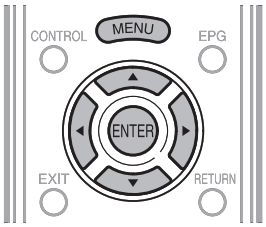
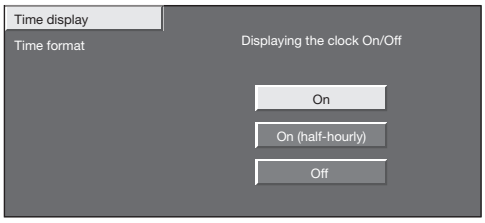
Indicating time on the screen

Time display

This function allows you to display the clock time on the lower right screen.



1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Individual setting” and then press **ENTER**.
5. Press ▲/▼ to select “Time display” and then press **ENTER**.
6. Press ▲/▼ to select “Time display” and then press **ENTER**.
7. Press ▲/▼ to select “On” or “On (half-hourly)” and then press **ENTER**.



Selected item	Description
On	Display the clock time.
On (half-hourly)	Display the clock time in 30 minutes increments.
Off	Hide the clock time.

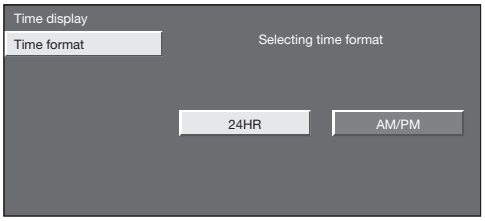
NOTE

Time information is available when channel time information including the teletext information is obtained in the “ATV” or “DTV” mode.

Time format

You can select the time format (either 24HR or AM/PM) for the clock time.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Individual setting” and then press **ENTER**.
5. Press ▲/▼ to select “Time display” and then press **ENTER**.
6. Press ▲/▼ to select “Time format” and then press **ENTER**.
7. Press ◀/▶ to select the desired time format and then press **ENTER**.



NOTE

- The displayed time may differ depending on the programmes because of the programme information.

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Audio adjustment

You can adjust the audio of the selected AV mode.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Audio”.
4. Press ▲/▼ to select the desired menu item. Press **ENTER** to proceed if necessary.
5. Press ▲/▼ or ◀/▶ to select the desired item or adjust the item to the desired level. Press **ENTER** if necessary.

Selected item	◀button	▶button
Treble	For weaker treble	For stronger treble
Bass	For weaker bass	For stronger bass
Balance	Increase audio from the left speaker	Increase audio from the right speaker

NOTE

- For resetting all adjustment items to the factory preset values, press ▲/▼ to select “Reset”, press **ENTER**, press ▲/▼ to select “Yes”, and then press **ENTER**.

SRS TruSurround (TS) HD™

You can enjoy SRS TruSurround HD™ sound, the same as if you were in a movie theatre.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Audio”.
4. Press ▲/▼ to select “SRS TS HD”.
5. Press ◀/▶ to select “On” or “Off”.

Selected item	Description
On	SRS TruSurround HD™ creates a high quality surround sound experience, when watching DVD movies and TV programmes broadcast in surround sound.
Off	Outputs the normal sound.

Bass enhancer

This function allows you to enjoy bass-enhanced sound.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Audio”.
4. Press ▲/▼ to select “Bass enhancer”.
5. Press ◀/▶ to select “On” or “Off”.

Automatic volume adjustment

Different sound sources sometimes do not have the same volume level, such as a programme and its commercial breaks. The Automatic volume control (Auto volume) reduces this problem by equalizing levels.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Audio”.
4. Press ▲/▼ to select “Auto volume”, and then press **ENTER**.
5. Press ▲/▼ to select “High”, “Middle”, “Low” or “Off”, and then press **ENTER**.

Selected item	Description
High	Reduces the volume gaps among different sound sources strongly.
Middle	Operates on a level between “High” and “Low”.
Low	Reduces the volume gaps among different sound sources slightly.
Off	Does not reduce the volume gaps among different sound sources.

Clear voice

This function emphasises speech against background noise for greater intelligibility.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Audio”.
4. Press ▲/▼ to select “Clear voice”.
5. Press ◀/▶ to select “On” or “Off”.

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Digital audio output

This function allows you to select your favourite audio output system.

1 Press **MENU** and the MENU screen displays.

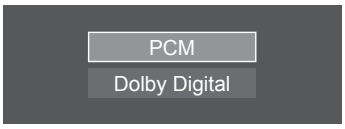
2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “Option”.

4 Press ▲/▼ to select “Terminal setting”, and then press **ENTER**.

5 Press ▲/▼ to select “Digital audio output”, and then press **ENTER**.

6 Press ▲/▼ to select your desired output system, and then press **ENTER**.



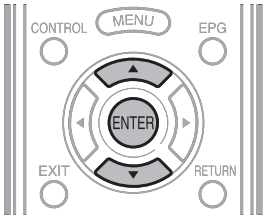
Selected item	Description
PCM	The optical output format is normally in PCM.
Dolby Digital	When set to “Dolby Digital”, Dolby Digital is output when the Dolby Digital audio formats are received.

NOTE

- This function is not available in the USB mode.

Programme guide

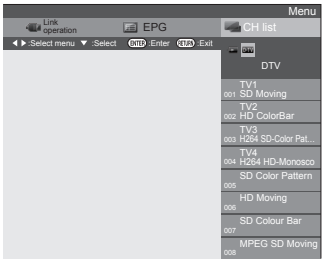
You can check the current schedule of DTV events and view detailed information about current events.



1 Press **ENTER** to display the programme guide list.

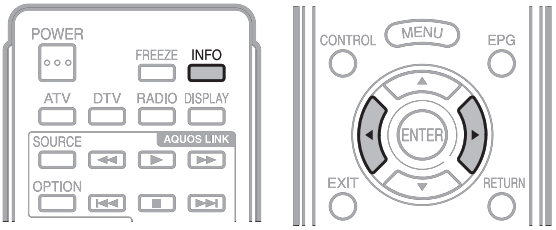
2 Press ▲/▼ to display your desired programme, and then press **ENTER**.

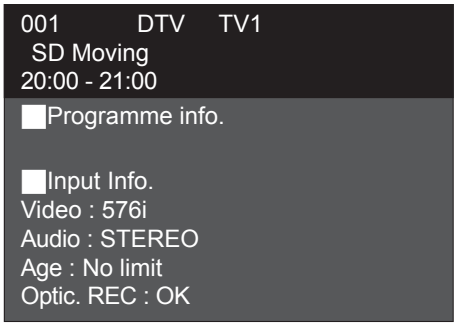
- When you press **ENTER**, the TV jumps to the channel.



Info

While watching DTV you can check the extended programme information on the screen using **INFO** on the remote control.





- If there is more information, pressing ◀/▶ allows you to go to the next page or return to the previous page.
- You can cancel this info by pressing **INFO** again.

Using Info on the menu screen

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “Option”.

4 Press ▲/▼ to select “Option for view” and then press **ENTER**.

5 Press ▲/▼ to select “Programme info.” and then press **ENTER**.

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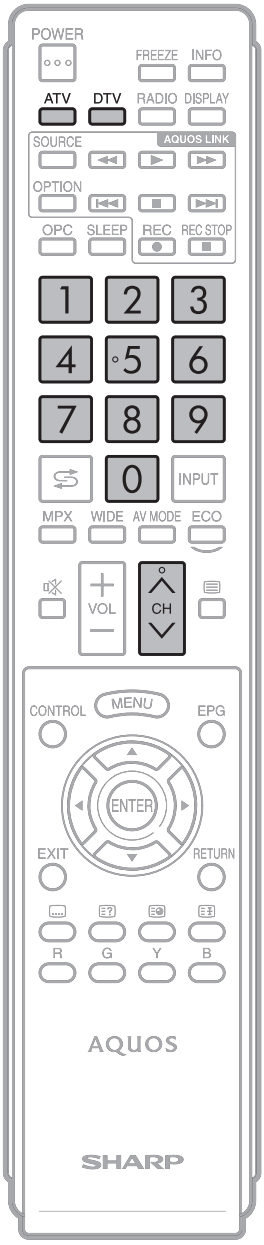
ATV (Analogue)/DTV (Digital) buttons

Use the following buttons on the remote control to operate the menu.



ATV: Press to switch to analogue TV mode. After switching from digital TV or external input mode to analogue TV mode, the TV jumps to the most recently viewed analogue channel.

DTV: Press to switch to digital TV mode. After switching from analogue TV or external input mode to digital TV mode, the TV jumps to the most recently viewed digital TV channel.

When you watch the TV for the first time

When the TV powers on for the first time after purchase, perform the auto installation.

ATV (Analogue TV)

You can run the auto installation to set channels automatically.

1. To watch the analogue TV, select “Auto installation” from “Setup” menu. (See page 19.)
2. After setting the channels, you can select a channel using **CH**∧/∨ or **0**-**9** on the remote control unit. (See page 20.)

DTV (Digital TV)

When the TV accesses to DTV mode for the first time, you need to run the auto search. To scan all available services in your area, follow the procedures below.

1. To watch DTV broadcasts, select “Digital search” from “Auto installation” menu. (See page 17.)
2. After setting the channels, you can select a channel using **CH**∧/∨ or **0**-**9** on the remote control unit. (See page 20.)

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EPG

What is an EPG?

An “EPG” (Electronic Programme Guide) is a programme schedule, which is displayed on the TV screen. The EPG is broadcasted together with DTV. The TV screen shows the EPG when the viewer presses **EPG** on the remote control, provided that the TV is receiving the digital broadcasting signal. The EPG enables you to search for a programme, view the programme schedule in detail.

Basic settings

EPG (Electronic Programme Guide) is a programme list that is displayed on the screen. With the EPG, you can check the schedule of DTV, view detailed information about them, tune to an event currently on-air and set a timer for future events.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Individual setting”, and then press **ENTER**.
5. Press ▲/▼ to select “Standby search” and then press **ENTER**.
6. Press ▲/▼ to select “EPG”.
7. Press ◀/▶ to select the desired item.

■ EPG (setting for receiving EPG data)

EPG setup must be selected to “Yes” to enable automatic capturing of data for all available channels while the TV set is in standby mode. If EPG is set to “No”, only EPG data for the current channel will be updated.

Selecting EPG to “Yes” will result in higher power consumption*.
Selecting EPG to “No” will save power consumption.

NOTE

* Approximately 16W for 15-30 minutes (depending on number of channels tuned) after power off from remote control.

- EPG data will not update if the TV is turned off from the mains power switch.
- “EPG” cannot be selected when the country setting is set to “New Zealand”.

EPG display settings

Go to “Menu” → “Setup” → “Option” → “EPG setup” → “Display range setup” or “Genre icon setup”.

■ Display range setup

The Display range setup allows you to select three types of time spans for display on the screen.

Selected item	Description
Mode1 (Wide angle)	Display six hours of programme information.
Mode2 (Zoom)	Display three hours of programme information.
Mode3 (Vertical angle)	Change to the EPG display format with a vertical time span.

NOTE

- “Display range setup” cannot be selected when the country setting is set to “New Zealand”.

■ Genre icon setup

You can grey out or place a mark on desired genres and smoothly search for programmes you frequently watch.

Genre icon list for Australia

Icon	Genre	Icon	Genre
	Movie		Current affairs
	News		Education/ Information
	Entertainment		Infotainment
	Sport		Special
	Children’s		Comedy
	Music		Drama
	Arts/Culture		Documentary

Genre icon list for Singapore and New Zealand

Icon	Genre	Icon	Genre
	Movie/Drama		Music/Ballet/Dance
	News/Current affairs		Arts/Culture (without music)
	Show/Game show		Social/Political issues/Economics
	Sports		Education/Science/ Factual topics
	Children’s/Youth programmes		Leisure hobbies

NOTE

- You can easily distinguish the Genre icons by darkening or lightening the icon’s shade.
- Genre types depend on the country setting.

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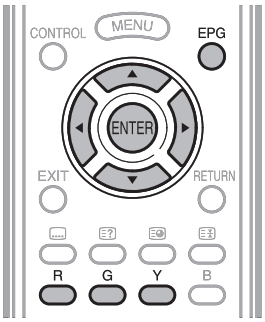
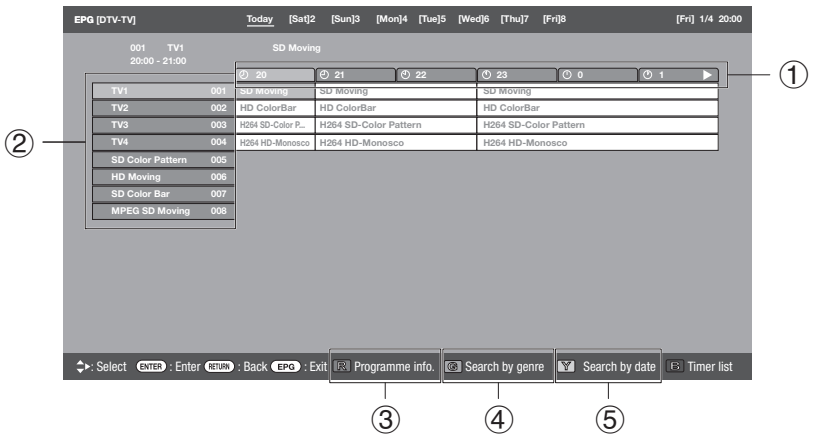
Selecting a programme using EPG

Basic operation

Display the EPG screen

Press **EPG**.





Display the EPG screen

① Press ◀/▶ to select the time span you want to search.

- Continue to press ▶ to display programmes in the next time span.

② Press ▲/▼ to select the desired programme.

- If ▲ or ▼ are displayed on the left of the services, continue to press ▲/▼ to display next or previous screen.

Close the EPG screen

Press **EPG** again.

NOTE

- You can also display the EPG screen from “Menu” → “EPG” → “EPG”.
- The time displayed on the EPG is information sent by the TV station.
- When the country setting is set to “New Zealand”, the EPG screen and operation differ due to the use of MHEG-5 EPG. The EPG screen and operation vary depending on the broadcasts.
- When the country setting is set to “New Zealand”, the EPG function is not available when MHEG-5 EPG is not broadcasted.
- The MHEG-5 EPG function is not available for models for the Australia market.

Selecting a programme

③ Check programme information

1 Press ▲/▼/◀/▶ to select the programme you want to check.

2 Press **R**.

Programme information

3 Press **ENTER** to tune to the selected programme.

NOTE

- When the country setting is set to “New Zealand”, this function is not available due to the use of MHEG-5 EPG.

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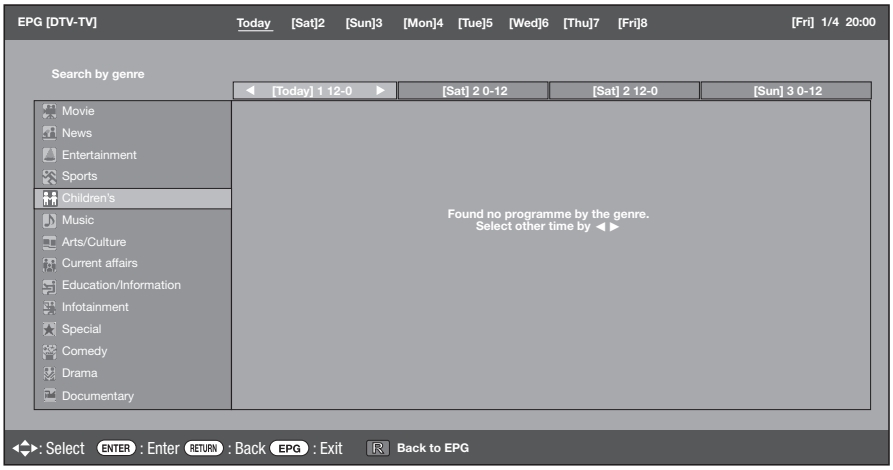
④ Search a programme in a category

1 Press **G**.

2 Press ▲/▼ to select the desired genre, and then press **ENTER**.

3 Press ▲/▼ to select a programme you want to watch, and then press **ENTER**.



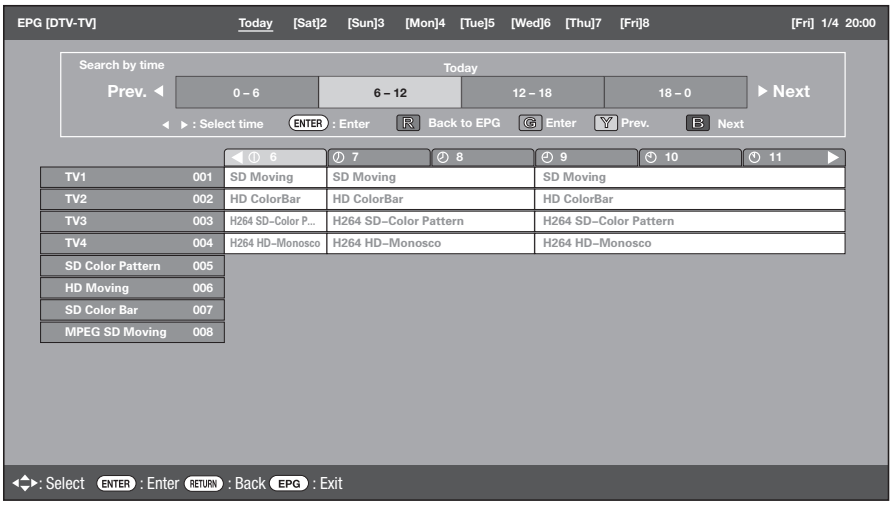
NOTE

- The genre information depends on the broadcasts.
- You can also display the EPG screen from “Menu” → “EPG” → “Search by genre”.
- When the country setting is set to “New Zealand”, this function is not available due to the use of MHEG-5 EPG.

⑤ Search for a programme by date/time

1 Press **Y**.

2 Press ◄/► to select the desired time span and then press **ENTER**.


EPG [DTV-TV]
Today [Sat]2 [Sun]3 [Mon]4 [Tue]5 [Wed]6 [Thu]7 [Fri]8
[Fri] 1/4 20:00
Search by time
Today
Prev. ◄
0 – 6
6 – 12
12 – 18
18 – 0
► Next
◄ ►: Select time ENTER : Enter R Back to EPG G Enter Y Prev. B Next
6
7
8
9
10
11
TV1 001 SD Moving SD Moving SD Moving
TV2 002 HD ColorBar HD ColorBar HD ColorBar
TV3 003 H264 SD–Color P... H264 SD–Color Pattern H264 SD–Color Pattern
TV4 004 H264 HD–Monosco H264 HD–Monosco H264 HD–Monosco
SD Color Pattern 005
HD Moving 006
SD Color Bar 007
MPEG SD Moving 008
: Select ENTER : Enter RETURN : Back EPG : Exit

3 Press ▲/▼ to select the desired programme, and then press **ENTER**.

NOTE

- When you select a programme outside of the current time span, the timer setting screen displays. (See page 44.)
- You can also display the EPG screen from “Menu” → “EPG” → “Search by date”.
- When the country setting is set to “New Zealand”, this function is not available due to the use of MHEG-5 EPG.

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Timer setting using EPG

You can select TV programmes using data from the EPG.

1. Press **EPG**.
2. Press ▲/▼/◀/▶ to select the programme you want to set, and then press **ENTER**.
3. Press ◀/▶ to select the timer setting, and then press **ENTER**.
   - If you select “No”, the TV returns to the EPG screen.

Selecting “Watch” in the timer setup screen

This setting allows you to switch to a programme at a set time.

① Press ◀/▶ to select “Watch”, and then press **ENTER**.

② Press ◀/▶ to select “Yes”, and then press **ENTER**.

③ Press **ENTER** to set time.

- The selected TV programme is marked with an icon.

NOTE

- When the country setting is set to “New Zealand”, this function is not available due to the use of MHEG-5 EPG.

Cancelling the timer setting

1. Press **EPG**.
2. Press ▲/▼/◀/▶ to select the programme on timer setup, and then press **ENTER**.
3. Press ◀/▶ to select “Cancel”, and then press **ENTER**.
4. Press ◀/▶ to select “Yes”, and then press **ENTER**.
5. Press **ENTER** to cancel timer setup.

Cancelling using B button on the remote control

1. Press **EPG**.
2. Press **B** to display the timer list screen.
3. Press ▲/▼ to select a programme you want to change, and then press **ENTER**.
4. Press ◀/▶ to select “Cancel”, and then press **ENTER**.
5. Press ◀/▶ to select “Yes”, and then press **ENTER**.

NOTE

- When the country setting is set to “New Zealand”, this function is not available due to the use of MHEG-5 EPG.

Time zone

This function enables you to select your local time zone.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Individual setting”, and then press **ENTER**.
5. Press ▲/▼ to select “Time zone”, and then press **ENTER**.
6. Press ▲/▼ to select the desired time zone and then press **ENTER**.

NOTE

- This function lets you select the right time zone in case the time displayed in the EPG does not match the local time of your area.
- When the country setting is set to “Australia”, this function is available. When the country setting is set to “Singapore” or “New Zealand”, this function is not available.

MHEG-5 (EPG) setting

This function is set to enable MHEG-5 in DTV mode.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Individual setting”, and then press **ENTER**.
5. Press ▲/▼ to select “MHEG-5 (EPG)”, and then press **ENTER**.
6. Press ▲/▼ to select “Enable” or “Disable”, and then press **ENTER**.

Selected item	Description
Enable	MHEG-5 is displayed during DTV mode.
Disable	MHEG-5 is not displayed during DTV mode.

NOTE

- This function is only displayed for models for the New Zealand market. This function is not displayed for models for the Singapore or Australia market.
- When the country setting is set to “New Zealand” in the initial auto installation, this function is available. When the country setting is set to “Australia” or “Singapore”, this item is grayed out and cannot be selected.
- The MHEG-5 is not displayed when there is no MHEG-5 information on broadcast in setting this function to “Enable”.
- When this function is set to “Enable”, subtitles may not be displayed. If this occurs, set to “Disable” and then display of subtitles will be possible.

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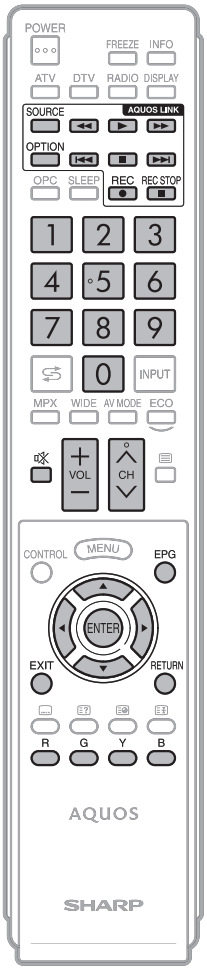
AQUOS LINK

Controlling HDMI devices using AQUOS LINK



What is AQUOS LINK?
Using the HDMI CEC (Consumer Electronics Control) protocol, with AQUOS LINK you can interactively operate compatible system devices (AV amplifier, DVD, Blu-ray Disc device) .

NOTE

- Please check the availability of AQUOS LINK-compatible AQUOS BD Players and AQUOS LINK-compatible audio systems in your country.

What you can do with AQUOS LINK

✔ One Touch Play

While the TV is in standby mode, it automatically turns on and plays back the image from the HDMI source.

✔ Single remote control operation

The AQUOS LINK automatically recognises the connected HDMI device and you can control the TV and the devices as if using a universal remote control.

✔ Operating Title list of external devices

You can also call up the external player's Top menu or AQUOS BD Player's Title list provided that the devices support AQUOS LINK.

✔ Multiple control of HDMI devices

You can select which HDMI device to operate using **OPTION**.

✔ Controlling the AQUOS LINK-compatible audio system

You can adjust the volume and select the sound mode of the AQUOS LINK-compatible audio system.

NOTE

- Point the remote control toward the TV, not to the connected HDMI device.
- Video noise may occur depending on the type of HDMI-certified cables used. Make sure to use a HDMI-certified cable.
- Up to 3 pieces of HDMI recording equipment and one AV amplifier can be connected using this system.
- These operations affect the HDMI device selected as the current input source. If the device does not operate, turn on the device and select the appropriate input source using **INPUT**.
- When you insert/remove HDMI-certified cables or change connections, turn on all connected HDMI devices before turning on the TV. Confirm that picture and audio are correctly output by selecting "INPUT4", "INPUT5", "INPUT6" or "INPUT7" from the "INPUT SOURCE" menu.

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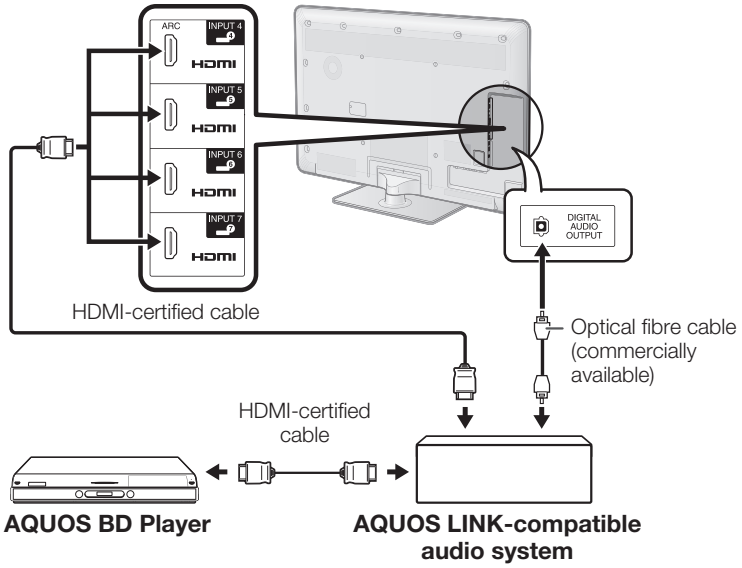
AQUOS LINK connection

First connect the AQUOS LINK-compatible audio system or an AQUOS BD Player that supports the HDMI CEC protocol.

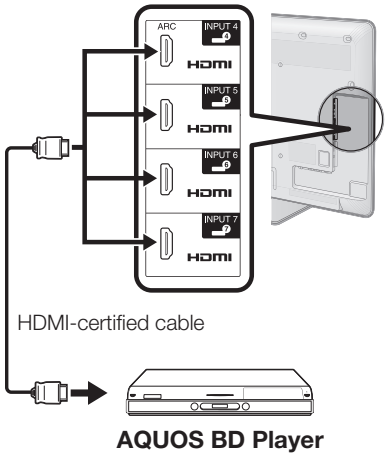
NOTE

- Refer to the operation manual of the device to be connected for further details.
- After unplugging connection cables or changing the connection pattern, first turn on the power of the TV with all relevant device's power turned on. Change the external input source by pressing **INPUT**, select the appropriate input source and verify the audiovisual output.
- The cables illustrated in the following explanation are commercially available items.

Connecting an AQUOS BD Player via the AQUOS LINK-compatible audio system



Connecting an AQUOS BD Player only



AQUOS LINK Setup

AQUOS LINK control

1 Press **OPTION** and the "Link operation" screen displays.

2 Press ▲/▼ to select "AQUOS LINK setup" and then press **ENTER**.

3 Press ▲/▼ to select "AQUOS LINK control".

4 Press ◀/▶ to select "On".

NOTE

- For "AQUOS LINK control", go to "Link operation" or "Setup" → "Option" → "AQUOS LINK setup" in the menu screen.

AQUOS LINK Auto power on

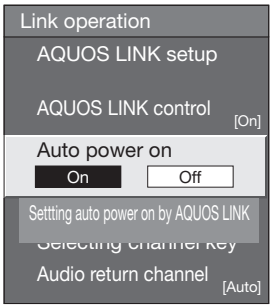
If this is activated, the One Touch Play function is enabled. While the TV is in standby mode, it automatically turns on and plays back the image from the HDMI source.

1 Press **OPTION** and the "Link operation" screen displays.

2 Press ▲/▼ to select "AQUOS LINK setup", and then press **ENTER**.

3 Press ▲/▼ to select "Auto power on".

4 Press ◀/▶ to select "On".



5 Press **MENU** to exit.

NOTE

- The factory default for this item is "Off".
- For "Auto power on", go to "Link operation" or "Setup" → "Option" → "AQUOS LINK setup" in the menu screen.

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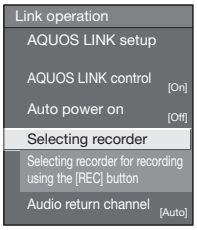
Selecting recorder

You can select a recorder for the recording from several connected recorders.

1 Press **OPTION** and the “Link operation” screen displays.

2 Press ▲/▼ to select “AQUOS LINK setup”, and then press **ENTER**.

3 Press ▲/▼ to select “Selecting recorder”, and then press **ENTER**.

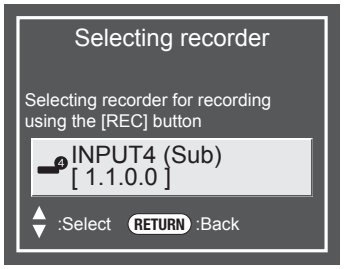


4 Select the recorder, and then press **ENTER**.

5 Press **MENU** to exit.

NOTE

- If you have connected the AQUOS LINK-compatible audio system between the TV and a CEC-compatible recorder, the input source’s indication changes from “INPUT4” to “INPUT4 (Sub)” as it is shown below.



- For “Selecting recorder”, go to “Link operation” or “Setup” → “Option” → “AQUOS LINK setup” in the menu screen.

Selecting channel key

This function allows you to select the channel of the connected HDMI device using the TV’s remote control unit.

1 Press **OPTION** and the “Link operation” screen displays.

2 Press ▲/▼ to select “AQUOS LINK setup”, and then press **ENTER**.

3 Press ▲/▼ to select “Selecting channel key”, and then press **ENTER**.

4 Press ▲/▼ to select the input source of the connected HDMI device you want to control using the TV’s remote control unit.

5 Press ◀/▶ to select “On”.

NOTE

- For “Selecting channel key”, go to “Link operation” or “Setup” → “Option” → “AQUOS LINK setup” in the menu screen.

Audio return channel (ARC)

If this function is set to “Auto”, the TV can send audio data for video content shown on the TV to a connected audio device with just one ARC-compatible cable. Using this function eliminates the need to use a separate digital or analogue audio cable.

1 Press **OPTION** and the “Link operation” screen displays.

2 Press ▲/▼ to select “AQUOS LINK setup”, and then press **ENTER**.

3 Press ▲/▼ to select “Audio return channel”.

4 Press ◀/▶ to select “Auto” or “Off”.

5 Press **MENU** to exit.

Connection for using “Audio return channel”
You need to use ARC-compatible cables/devices and connect to the INPUT4 terminal to activate this function. The connection method is the same as the **“Connecting an AQUOS BD player only”** on page 46.

NOTE

- For “Audio return channel”, go to “Link operation” or “Setup” → “Option” → “AQUOS LINK setup” in the menu screen.
- **The ARC (Auto Return Channel) function works only when using the INPUT4 terminal.**

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Operating an AQUOS LINK device

AQUOS LINK allows you to operate the HDMI-connected device with one remote control.

Use the following procedure to start playback.

1 Press ▶ to start playback of a title.
- See page 38, section "**Playback of titles using AQUOS LINK**" if you want to start playback using the list of the titles of the AQUOS BD Player.

2 Press ▶▶ to fast forward.
Press ◀◀ to reverse.
Press ■ to stop.
Press **SOURCE** to turn the HDMI-connected device on/off.

Use the following procedure to start recording.

Check the following items before recording.
- Make sure the antenna cable is connected properly.
- Check if the recording media (HDD, DVD, etc.) has enough capacity for recording a programme.
- Select the equipment for recording in Selecting Recorder.

1 After you selected recording media (HDD, DVD, etc.) in the menu, please make sure the recording menu in the ready condition.

2 Press ● to record a programme.

3 Press ■ to stop recording.

Recorder power on/off

This function is for turning of the CEC-compatible recorder on/off.

1 Press **OPTION** and the "Link operation" screen displays.

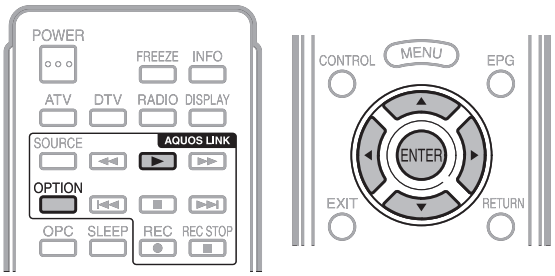
2 Press ▲/▼ to select "Recorder power on/off", and then press **ENTER**.

3 Every time you press **ENTER** in "Recorder power on/off" , the CEC-compatible recorder will be turned on/off.

NOTE
- You can go to "Recorder power on/off" from "Link operation" in the menu screen.

Playback of titles using AQUOS LINK

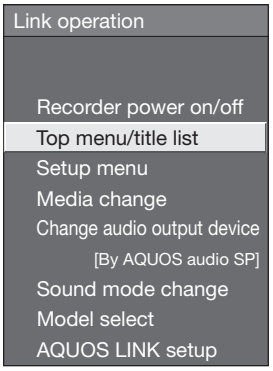
This section explains how to play back a title in the AQUOS BD Player.



1 Power on the AQUOS BD player and select the appropriate external input.

2 Press **OPTION** and the "Link operation" screen displays.

3 Press ▲/▼ to select "Top menu/title list", and then press **ENTER**.



- The linked recorder now powers on and the TV automatically selects the appropriate external input source.
- The title list data from the connected AQUOS BD Player displays.

4 Select the title with ▲/▼/◀/▶, and then press ▶ to start playback.

NOTE
- You can go to "Top menu/title list" from "Link operation" in the menu screen.

Setup menu

You can call up the menu of an HDMI CEC-compatible external device (player, recorder, decoder, etc.) using the "Setup menu" function.

1 Press **OPTION** and the "Link operation" screen displays.

2 Press ▲/▼ to select "Setup menu", and then press **ENTER**.

NOTE
- If a connected device does not have this function or the device is in a status where the menu cannot be displayed (recording, entering standby, etc.), this function may not be available.
- You can go to "Setup menu" from "Link operation"in the menu screen.

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Selecting media type for CEC-compatible recorder

If your recorder has multiple storage media, select the media type here.

1. Press **OPTION** and the “Link operation” screen displays.
2. Press ▲/▼ to select “Media change”, and then press **ENTER**.
3. Select the desired medium, such as DVD or HDD. The media type changes every time you press **ENTER**.

NOTE

- You can go to “Media change” from “Link operation” in the menu screen.

Listening with the AQUOS LINK-compatible audio system

You can choose to listen to the TV sound only from the AQUOS LINK-compatible audio system.

1. Press **OPTION** and the “Link operation” screen displays.
2. Press ▲/▼ to select “Change audio output device”, and then press **ENTER**.
3. Press ▲/▼ to select “By AQUOS audio SP”, and then press **ENTER**.
   - The sound from the TV speaker and headphone terminal is silenced and only the sound from the AQUOS LINK-compatible audio system is audible.
   - You can use **VOL** +/– and 🔇 (Mute).

NOTE

- You can go to “By AQUOS audio SP” from “Link operation” in the menu screen.

Listening with the AQUOS TV speaker system

You can choose to listen to the TV sound only from the AQUOS TV speaker system.

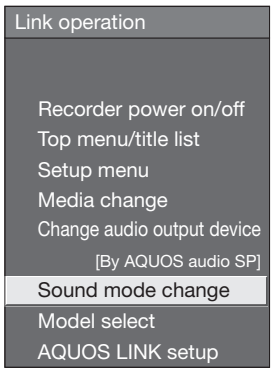
1. Press **OPTION** and the “Link operation” screen displays.
2. Press ▲/▼ to select “Change audio output device”, and then press **ENTER**.
3. Press ▲/▼ to select “By AQUOS SP”, and then press **ENTER**.

NOTE

- You can go to “By AQUOS SP” from “Link operation” in the menu screen.

Manually changing the AQUOS LINK-compatible audio system’s sound mode

1. Press **OPTION** and the “Link operation” screen displays.
2. Press ▲/▼ to select “Sound mode change”.



3. The sound mode changes every time you press **ENTER**.
   - Refer to the operation manual of the AQUOS LINK-compatible audio system for details.

NOTE

- You can go to “Sound mode change” from “Link operation” in the menu screen.

HDMI device selection

If multiple HDMI devices are connected in a daisy chain, you can specify which device to control here.

1. Press **OPTION** and the “Link operation” screen displays.
2. Press ▲/▼ to select “Model select”, and then press **ENTER**. The HDMI device changes every time you press **ENTER**.

NOTE

- You can go to “Model select” from “Link operation” in the menu screen.

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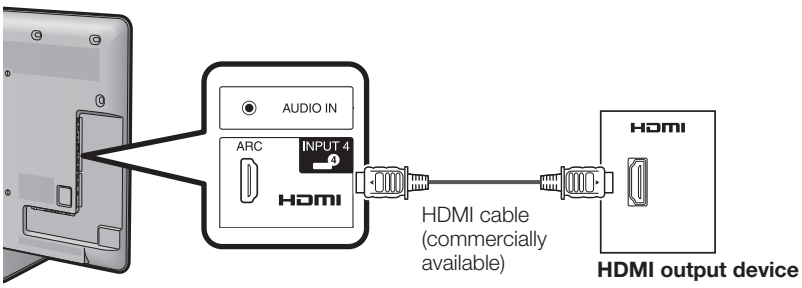
Settings when using external devices

Settings when using HDMI output devices

HDMI terminals can carry audio and visual signals to the TV with an HDMI certified cable. When you want to output the audio and picture from an HDMI output device on the TV, select “INPUT4”, “INPUT5”, “INPUT6” or “INPUT7” by switching the input source.

Connecting an HDMI output device



■ HDMI (High-Definition Multimedia Interface) Auto View

1 To watch an HDMI equipment image, select “INPUT4”, “INPUT5”, “INPUT6” or “INPUT7” using **INPUT** on the remote control unit or on the TV.

2 Press **MENU** and the MENU screen displays.

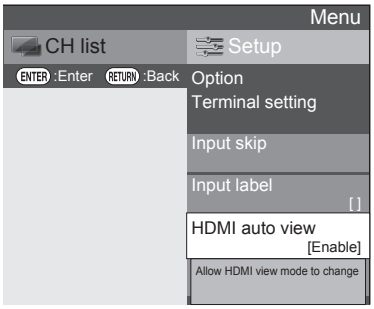
3 Press ◀/▶ to select “Setup”.

4 Press ▼/◀/▶ to select “Option”.

5 Press ▲/▼ to select “Terminal setting”, and then press **ENTER**.

6 Press ▲/▼ to select “HDMI auto view”, and then press **ENTER.**

- The HDMI auto view can be selected only when “INPUT4”, “INPUT5”, “INPUT6” or INPUT7 is selected.



7 Press ▲/▼ to select the desired item, and then press **ENTER**.

Selected items	Description
Enable/Disable	Set whether or not to use WIDE MODE based on signal recognition, including an HDMI signal.

NOTE

- Refer to your external equipment operation manual for the above settings.
- When connecting a DVI-HDMI conversion adaptor/cable to the HDMI terminal, the image may not come in clearly.

Audio select for connecting HDMI

When connecting HDMI to the INPUT5 terminal, and inputting analogue audio signals from the AUDIO IN terminal.
Go to “MENU” → “Setup” → “Option” → “Terminal setting” → “PC input” → “Audio select”.

Selected items	Description
HDMI (Digital)	When connecting devices with HDMI cable to the INPUT5 terminal.
HDMI + Audio input	When connecting devices with HDMI cable to the INPUT5 terminal and inputting analogue audio signals from the AUDIO IN terminal.

NOTE

- You must set this to “HDMI+Analogue” when connecting devices with an HDMI-certified cable to the INPUT5 terminal. If “HDMI (Digital)” is set, there will be no sound output.

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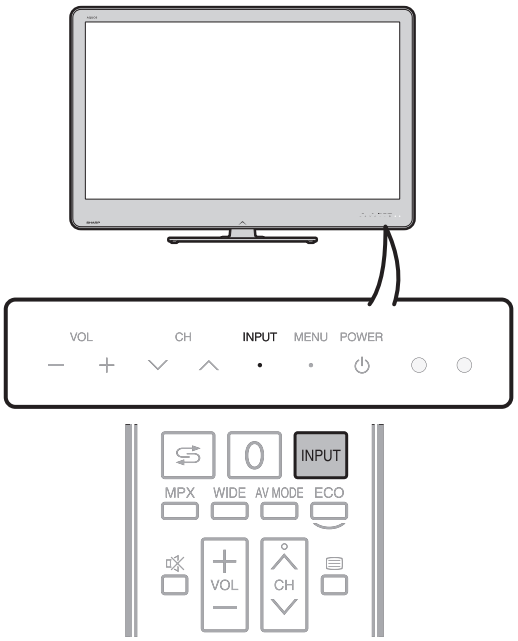
Selecting the input source

Can use for selecting the input source.

Using INPUT on the remote control unit or on the TV

INPUT allows you to choose from the available input sources.



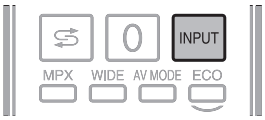
1 Press **INPUT** on the remote control unit or on the TV.

2 Press **INPUT** on the remote control unit or on the TV to select the input source.

- The image and sound from the selected source are output on the TV.
- You can also select the input source by pressing ▲/▼.

Labelling input sources

You can assign each input source a label as you prefer.



1 Press **INPUT** to select the desired input source.

2 Press **MENU** and the MENU screen displays.

3 Press ◀/▶ to select “Setup”.

4 Press ▼/◀/▶ to select “Option”.

5 Press ▲/▼ to select “Terminal setting”, and then press **ENTER**.

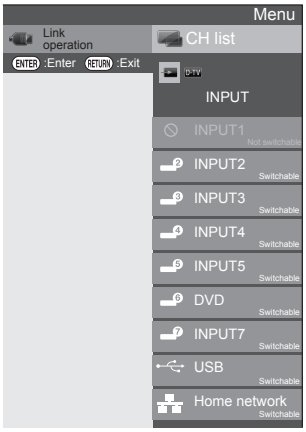
6 Press ▲/▼ to select “Input label”, and then press **ENTER**.

7 Press ▲/▼/◀/▶ to select characters, and then press **ENTER**.

- When you want to change the input label that you have already assigned to the default name, press ◀/▶ to move to “CLEAR” on the “Input label” screen, and then press **ENTER**.

8 Repeat the above until the name is fully spelt out, and then press **MENU**.

- The name can be 6 characters or less.
- When you want to set an input source name of less than 6 characters, select “END”.



(Example)

NOTE

- You cannot change labels if the input source is “ATV” or “DTV”.

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Headphone/Audio out select

You can select which device is used for outputting audio.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “Terminal setting”, and then press **ENTER**.
5. Press ▲/▼ to select “Headphone/Audio out select”, and then press **ENTER**.
6. Press ▲/▼ to select the desired item, and then press **ENTER.**

Selected items	Description
Headphone	Output audio through headphones.
Audio out	Output audio through an A/V receiver or surround audio controller.

CAUTION

- This terminal is also used for headphones. Reduce the volume before using headphones. Overwhelming sound may damage your hearing.

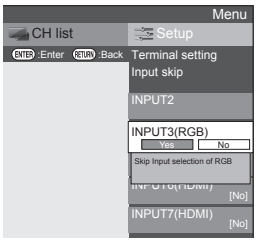
NOTE

- If you select “Audio out” when a cable is inserted in the AUDIO IN terminal, the TV speakers are muted.
- When you select “Audio out”, you can adjust the TV sound volume with the **VOL +/−** buttons on the TV or on the remote control unit.

Skipping an input

This setting allows you to skip an input on the “Input skip” menu.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “Terminal setting”, and then press **ENTER**.
5. Press ▲/▼ to select “Input skip”, and then press **ENTER**.
6. Press ▲/▼ to select the Input (INPUT2 to INPUT7) you wish to skip.

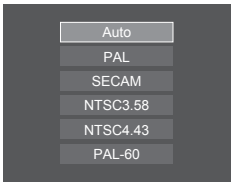


7. Press ◀/▶ to select “Yes”.
8. Press **MENU** to exit.

Colour system settings

You can change the colour system to one that is compatible with the image on the screen.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “Colour system”, and then press **ENTER**.
5. Press ▲/▼ to select a compatible video signal system of your equipment, and then press **ENTER**.



NOTE

- Factory preset value is “Auto”.
- If “Auto” is selected, colour system for input signal is automatically set. If an image does not display clearly, select another colour system (e.g. PAL, NTSC 4.43).
- You can choose from “Auto”, “PAL”, “SECAM”, “NTSC3.58” and “NTSC4.43” in the “ATV” mode.

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Channel selecting effect

This function sets a screen effect when choosing or changing channels.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “Screen effect” and then press **ENTER**.
5. Press ▲/▼ to select “Channel selecting effect”.
6. Press ◀/▶ to select “Yes”.

LED Illumination

This function makes the LED on the front of TV illuminated in several ways.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “Illumination”, and then press **ENTER**.
5. Press ▲/▼ to select the desired item, and then press **ENTER**.
   - After you select “Off” or “Standby”, press ◀/▶ to select “Yes” and then press **ENTER**.

Selected items	Description
Off	The LED is not illuminated.
Standby	The LED is illuminated while the TV is in standby mode.
Watch	The LED is illuminated while you watch TV.
Always	The LED is illuminated all the time.

NOTE

- The factory default for this item is “Watch”. Set to “Off” if you do not want the LED to illuminate.

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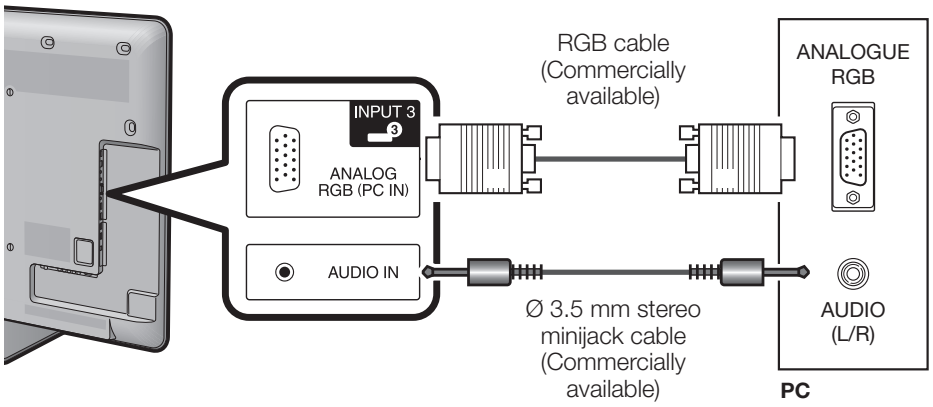
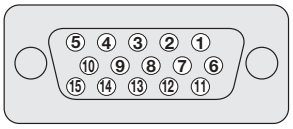
Connecting a PC

Use the PC terminals to connect a PC.

Analogue Connection



Signal names for 15-pin mini D-sub connector

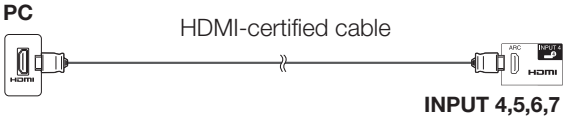


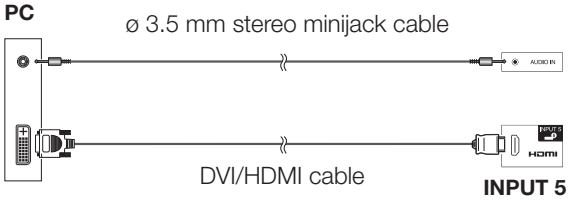
Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
①	R	⑥	GND (Ground)	⑪	Not connected
②	G	⑦	GND (Ground)	⑫	SDA
③	B	⑧	GND (Ground)	⑬	HD
④	Not connected	⑨	+5V	⑭	VD
⑤	CSYNC	⑩	GND (Ground)	⑮	SCL

NOTE

- Macintosh adaptor may be required for use for some Macintosh computers.
- Pin No. ⑤ is not used for inputting the signal.

HDMI Connection





Audio select for connecting a PC

When using the INPUT3 (PC) terminal, you must select which terminal uses the AUDIO (R/L) jack for analogue audio input.
Go to “MENU” → “Setup” → “Option” → “Terminal setting” → “PC input” → “Audio select”.

Selected items	Description
Video	When connecting devices with AV cable to the INPUT3 (PC) terminal, display images without audio.
Video+Audio	When connecting a PC to the INPUT3 (PC) terminal, and inputting analogue audio signals from the AUDIO IN terminal.

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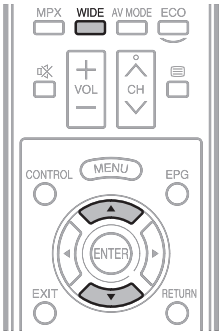
Displaying a PC image on the screen

Selecting the picture size

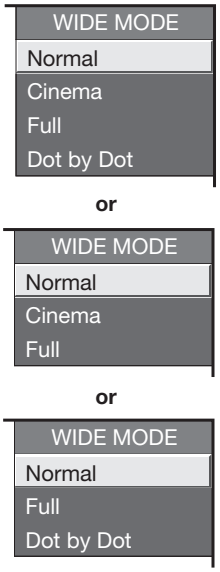
You can select the picture size as illustrated below.



Using Wide mode on the menu screen

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “Option for view”, and then press **ENTER**.
5. Press ▲/▼ to select “Wide mode”, and then press **ENTER**.

1. Press **WIDE**.
   - The WIDE MODE menu displays.



(Example)

2. Press **WIDE** or ▲/▼ to select a desired item on the menu.

NOTE

- Connect the PC before making adjustments.
- Selectable picture size may vary with input signal type.

EXAMPLE

Picture size images.

Input Signal	Normal	Cinema	Full	Dot by Dot
1024 × 768	Keeps the original aspect ratio in a full screen display.	For viewing wide screen programs. The top and bottom of the image is slightly cropped.	An image fully fills the screen.	Detects the resolution of the signal and displays an image with the same number of pixels on the screen.

Input Signal	Normal		Full	Dot by Dot
1360 × 768	Keeps the original aspect ratio in a full screen display.		An image fully fills the screen.	Detects the resolution of the signal and displays an image with the same number of pixels on the screen.

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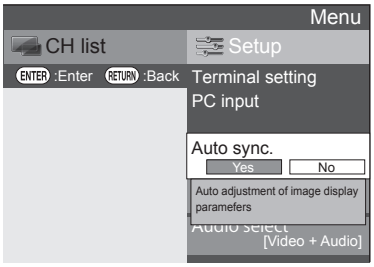
Adjusting the PC image automatically

This function enables the screen to be automatically adjusted to its best possible condition when the analogue terminals of the TV and PC are connected with a commercially available RGB cable, etc.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “Terminal setting”, and then press **ENTER**.
5. Press ▲/▼ to select “PC input” and then press **ENTER**.
6. Press ▲/▼ to select “Auto sync.”.
7. Press ◀/▶ to select “Yes”, and then press **ENTER**.
   - Auto Sync. starts.



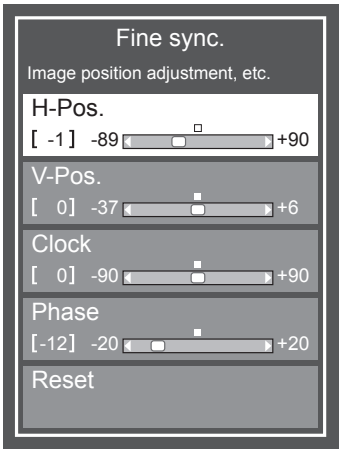
NOTE

- Auto Sync. is likely to succeed when an input PC image has wide vertical stripes (e.g. pattern with high contrast stripes, or cross-hatched).
  It may fail when an input PC image is solid (low contrast).
- Be sure to connect the PC to the TV and switch it on before starting Auto Sync.

Adjusting the PC image manually

Ordinarily you can easily adjust the picture as necessary to change image position using Auto Sync. In some cases, however, manual adjustment is needed to optimise the image.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “Option”.
4. Press ▲/▼ to select “Terminal setting”, and then press **ENTER**.
5. Press ▲/▼ to select “PC input” and then press **ENTER**.
6. Press ▲/▼ to select “Fine sync.”, and then press **ENTER**.
7. Press ▲/▼ to select a specific adjustment item among “H-Pos.”, “V-Pos.”, “Clock” and “Phase”.



Selected item	Description
H-Pos.	Centres the image by moving it to the left or right.
V-Pos.	Centres the image by moving it up or down.
Clock	Adjusts when the image flickers with vertical stripes.
Phase	Adjusts when characters have low contrast or when the image flickers.

8. Press ◀/▶ to adjust the item to your desired position.

NOTE

- For resetting all adjustment items to the factory preset values, press ▲/▼ to select “Reset”, and then press **ENTER**.
- Images may not be displayed properly depending on the settings and/or input signals.

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PC Control of the TV

- When a programme is set, the TV can be controlled from the PC using the RS-232C terminal. The input signal (PC/video) can be selected, the volume can be adjusted and various other adjustments and settings can be made, enabling automatic programmed playing.
- Attach an RS-232C cable cross-type (commercially available) to the Din/D-sub RS-232C for the connections.

NOTE

- This operation system should be used by a person who is accustomed to using PCs.

Communication conditions

Set the RS-232C communications settings on the PC to match the communications conditions of the TV. The communications settings of the TV are as follows:

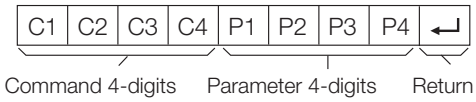
Baud rate:	9,600 bps
Data length:	8 bits
Parity bit:	None
Stop bit:	1 bit
Flow control:	None

Communication procedure

Send the control commands from the PC via the RS-232C connector.
The TV operates according to the received command and sends a response message to the PC.
Do not send multiple commands at the same time. Wait until the PC receives the OK response before sending the next command.

Command format

Eight ASCII codes + CR



Command 4-digits: Command. The text of four characters.
Parameter 4-digits: Parameter 0 - 9, space, ?

Parameter

Input the parameter values, aligning left, and fill with space(s) for the remainder. (Be sure that four values are input for the parameter.)
When the input parameter is not correct, “ERR” returns. (Refer to “Response code format”.)

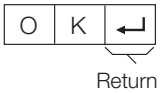
0			
0	0	0	9
–	3	0	
1	0	0	
0	0	5	5

When “?” is input for some commands, the present setting value responds.

?			
?	?	?	?

Response code format

Normal response



Problem response (communication error or incorrect command)

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PC compatibility chart

Resolution		Horizontal Frequency	Vertical Frequency	Analogue (D-Sub)	Digital (HDMI)	VESA Standard
VGA	640 × 480	31.5 kHz	60 Hz	✔	✔	✔
SVGA	800 × 600	37.9 kHz	60 Hz	✔	✔	✔
XGA	1024 × 768	48.4 kHz	60 Hz	✔	✔	✔
WXGA	1360 × 768	47.7 kHz	60 Hz	✔	✔	✔
SXGA	1280 × 1024	64.0 kHz	60 Hz	✔	✔	✔
SXGA+	1400 ×1050	65.3 kHz	60 Hz	✔	✔	✔
UXGA	1600 ×1200	75.0 kHz	60 Hz	✔	✔	✔
1080p	1920 ×1080	67.5 kHz	60 Hz	✔	✔	–

NOTE

- This TV has only limited PC compatibility, correct operation can only be guaranteed if the video card conforms exactly to the VESA 60Hz standard. Any variations from this standard will result in picture distortions.

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VGA and XGA are registered trademarks of International Business Machines Corp.

RS-232C commands list

Commands

- Commands not indicated here are not guaranteed to operate.

CONTROL ITEM	COMMAND				PARAMETER				CONTROL CONTENTS
POWER SETTING	P	O	W	R	0	_	_	_	POWER OFF (STANDBY)
INPUT SELECTION	I	T	G	D	_	_	_	_	INPUT SWITCHING (TOGGLE)
	I	T	V	D	_	_	_	_	TV (CHANNEL FIXED)
	I	D	T	V	_	_	_	_	DTV (CHANNEL FIXED)
	I	A	V	D	*	_	_	_	INPUT1~7 (1-7)
CHANNEL	D	C	C	H	*	*	_	_	TV DIRECT CHANNEL (1–99)
	C	H	U	P	_	_	_	_	CHANNEL UP
	C	H	D	W	_	_	_	_	CHANNEL DOWN
	D	T	V	D	*	*	*	_	DTV DIRECT CHANNEL (1-999)
	D	T	U	P	_	_	_	_	DTV CHANNEL UP
	D	T	D	W	_	_	_	_	DTV CHANNEL DOWN
AV MODE SELECTION	A	V	M	D	0	_	_	_	TOGGLE
	A	V	M	D	1	_	_	_	STANDARD
	A	V	M	D	2	_	_	_	MOVIE
	A	V	M	D	3	_	_	_	GAME
	A	V	M	D	4	_	_	_	USER
	A	V	M	D	5	_	_	_	DYNAMIC (Fixed)
	A	V	M	D	6	_	_	_	DYNAMIC
	A	V	M	D	7	_	_	_	PC
	A	V	M	D	8	_	_	_	x.v.Colour
	A	V	M	D	1	0	0	_	AUTO
VOLUME	V	O	L	M	*	*	_	_	VOLUME (0–60)
POSITION	H	P	O	S	*	*	*	_	H-POSITION (AV) (−nn ~ nn)
	H	P	O	S	*	*	*	_	H-POSITION (PC) (−nn ~ nn)
	V	P	O	S	*	*	*	_	V-POSITION (AV) (−nn ~ nn)
	V	P	O	S	*	*	*	_	V-POSITION (PC) (−nn ~ nn)
	C	L	C	K	*	*	*	_	CLOCK (0–180)
	P	H	S	E	*	*	*	_	PHASE (0–40)

CONTROL ITEM	COMMAND				PARAMETER				CONTROL CONTENTS
WIDE MODE	W	I	D	E	0	_	_	_	TOGGLE (AV)
	W	I	D	E	1	_	_	_	NORMAL (AV)
	W	I	D	E	2	_	_	_	ZOOM 14:9 (AV)
	W	I	D	E	3	_	_	_	PANORAMA (AV)
	W	I	D	E	4	_	_	_	FULL (AV)
	W	I	D	E	5	_	_	_	CINEMA 16:9 (AV)
	W	I	D	E	6	_	_	_	CINEMA 14:9 (AV)
	W	I	D	E	7	_	_	_	NORMAL (PC)
	W	I	D	E	8	_	_	_	CINEMA (PC)
	W	I	D	E	9	_	_	_	FULL (PC)
	W	I	D	E	1	0	_	_	DOT BY DOT (AV/PC)
	W	I	D	E	1	1	_	_	UNDERSCAN (AV)
	W	I	D	E	1	2	_	_	AUTO (During playback USB video only)
	W	I	D	E	1	3	_	_	ORIGINAL (During playback USB video only)
MUTE	M	U	T	E	0	_	_	_	TOGGLE
	M	U	T	E	1	_	_	_	MUTE ON
	M	U	T	E	2	_	_	_	MUTE OFF
SRS TS HD	A	C	S	U	0	_	_	_	SRS TS HD TOGGLE
	A	C	S	U	1	_	_	_	SRS TS HD ON
	A	C	S	U	2	_	_	_	SRS TS HD OFF
AUDIO CHANGE	A	C	H	A	_	_	_	_	TOGGLE
SLEEP TIMER	O	F	T	M	0	_	_	_	OFF
	O	F	T	M	1	_	_	_	SLEEP TIMER 30 MIN
	O	F	T	M	2	_	_	_	SLEEP TIMER 1 HOUR
	O	F	T	M	3	_	_	_	SLEEP TIMER 1 HOUR 30 MIN
	O	F	T	M	4	_	_	_	SLEEP TIMER 2 HOUR
	O	F	T	M	5	_	_	_	SLEEP TIMER 2 HOUR 30 MIN
TEXT	T	E	X	T	0	_	_	_	TEXT OFF
	T	E	X	T	1	_	_	_	TEXT ON (TOGGLE)
	D	C	P	G	*	*	*	_	DIRECT PAGE JUMP (100-899)

NOTE

- If an underbar (_) appears in the parameter column, enter a space.
- If an asterisk (*) appears, enter a value in the range indicated in brackets under CONTROL CONTENTS.

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Teletext function

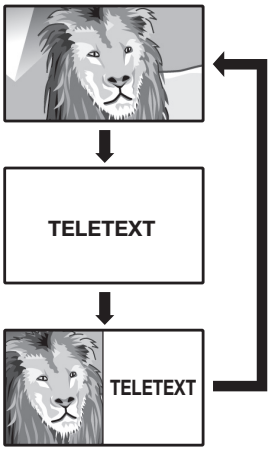
About Teletext

What is teletext?
Teletext broadcasts pages of information and entertainment to specially equipped television sets. Your TV receives teletext signals broadcast by a TV network, and decodes them into graphical format for viewing. News, weather reports, sports information, stock exchange prices and programme previews are among the many services available.

Teletext mode
Teletext is turned on/off with ☰ on the remote control unit. You can operate your TV in Teletext mode directly by inputting commands with the remote control unit.

Turning on and off teletext

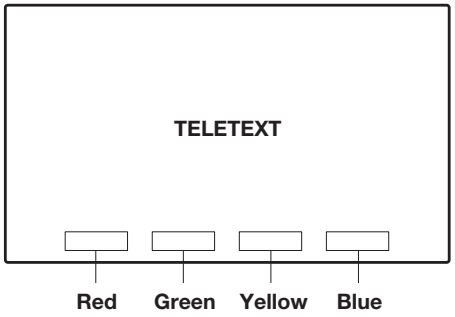
1. Select a TV channel or external input source providing the Teletext programme.
2. Press ☰ to display the teletext.
3. Press ☰ again to display the teletext on the right screen and normal image on the left screen.
   - Each time you press ☰, the screen switches as shown to the upper right.
   - If you select a programme with no Teletext signal, "No Teletext available" is displayed.
   - The same message displays during other modes if no teletext signal is available.



When viewing the teletext information
- Press **CH**∧ to increase the page number.
- Press **CH**∨ to decrease the page number.

Button functions

Colour (Red/Green/Yellow/Blue):
You can select a group or block of pages displayed in the coloured brackets at the bottom of the screen by pressing the corresponding **Colour (Red/Green/Yellow/Blue)** on the remote control unit.



0 - **9:**
Directly select any page from 100 to 899 by using **0** - **9**.

(Reveal hidden for teletext):
To reveal hidden information such as an answer to a quiz, press .
- Press again to hide the information.

(Hold):
To stop updating teletext pages automatically, press .
- Press again to release the hold mode.

(Subtitle for teletext):
Display the subtitle screen when the service contains subtitle information.

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Teletext language setting

If Teletext information does not display correctly, perform the procedure below.
Select from among 4 kinds of language tables: West Europe, East Europe, Greek/Turkish, Cyrillic.
Each table is compatible with the Teletext languages listed below.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Individual setting”, and then press **ENTER**.
5. Press ▲/▼ to select “Text language”, and then press **ENTER**.
6. Press ▲/▼ to select receivable teletext broadcasting language in your country.

- West Europe — English, French, Scandinavian, Turkish, German, Spanish, Italian
- East Europe — Polish, French, Scandinavian, Czech, German, Slovenian/Croatian, Italian, Rumanian
- Greek/Turkish — English, French, Scandinavian, Turkish, German, Spanish, Italian, Greek
- Cyrillic — English, Russian, Estonian, Czech, German, Slovenian/Croatian, Ukrainian, Lettish

NOTE

- Teletext can display only when it is sent by a network. Not used to convert between languages.

Initial teletext page setting

If you set the language of the initial page (this page is displayed for the first time after pressing (≡).) for teletext in DTV mode, it will start from the selected language page.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Individual setting”, and then press **ENTER**.
5. Press ▲/▼ to select “Initial teletext page”, and then press **ENTER**.
6. Press ▲/▼/◀/▶ to select the desired language, and then press **ENTER**.

NOTE

- This function is available for teletext in DTV mode. This is not available for teletext in ATV or external input mode.
- If the initial teletext page of the selected language in this function is not included in a received broadcast, the default initial page will be displayed.

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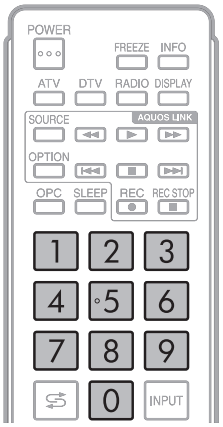
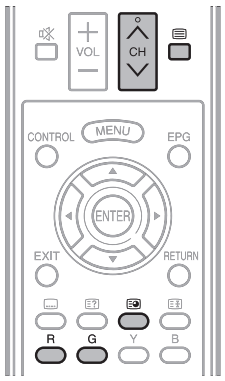
Displaying Subpages

You can display subpages as they are transmitted.





1 Press ☰ to display Teletext.

2 Press 📄 to display the subpage as shown below.

Subpage screen

3 Select the desired subpage by using **CH∧**/**CH∨**, **Red** or **Green**.

- **0** - **9** directly selects the desired subpage.

4 Press 📄 to exit the subpage screen.

Displaying Subtitles

You can display subtitles as they are transmitted.

1 Press 💬 to display the subtitle.

- Subtitle is updated by information sent by the broadcasting station.

2 Press 💬 to exit the subtitle screen.

NOTE

- Subtitle will not be displayed when the service does not contain subtitle information.

Switching subtitle languages

Refer to “Switching subtitle languages”on page 26.

Using the MHEG-5 application

Some services bring you programmes with the MHEG application encoded, letting you experience DTV interactively. When provided, the MHEG-5 application will start when you press ☰.

NOTE

- This function is not available for models for the Australia market.

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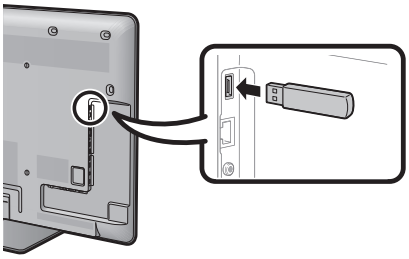
Other useful features

Connecting a USB device

Connect a USB device to the TV as shown below.



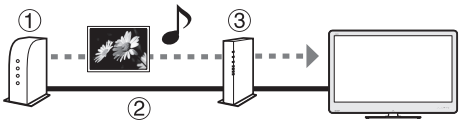
- The TV automatically switches to the USB mode when a USB device is inserted in the USB terminal.
- Depending on the USB device, the TV may not be able to recognise the contained data.
- Use only alphanumeric characters for naming files.
- File names over 80 characters (may vary depending on character set) may not be displayed.
- Do not disconnect a USB device or memory card from the TV while transferring files, when a screen is switching to another or before you exit “USB” from “INPUT” in the “CH list” menu.
- Do not connect and disconnect a USB device from the TV repeatedly.

CAUTION

- Do not use a USB extension cable when connecting a USB device to the USB terminal of the TV.
- Using a USB extension cable may prevent the TV from performing correctly.

Connecting a Home network server

Connect a Home network server to the TV as shown below. This function is available via Windows 7.



① Home network server
② LAN cable
③ Router

NOTE

- You may need to setup the TV for a Home network server in “Ethernet setup” from the “View setting” menu.
- The factory preset value for the “Ethernet setup” is “Auto”. If the TV does not automatically connect to Home network content, go to “Menu” → “Setup” → “View setting” → “Ethernet setup” → “Change”. Follow the screen prompts and perform each setting.
- Depending on the Home network server, the TV may not be able to recognise the contained data.
- Use only alphanumeric characters for naming files.
- File names over 80 characters (may vary depending on the character set) may not be displayed.
- Do not disconnect a Home network server from the TV while transferring files, when a screen is switching to another or before you exit “Home network” from “INPUT” in the “CH list” menu.
- Do not connect and disconnect a Home network server from the TV repeatedly.

USB media/Home network

Select “USB” or “Home network” from “INPUT” in the "CH list" menu to enter this mode or the TV automatically switches to the USB/Home network mode when a USB device/a Home network server is connected to the TV.

USB media

In this mode, you can enjoy viewing photos, listening to music and watching videos from external USB devices.

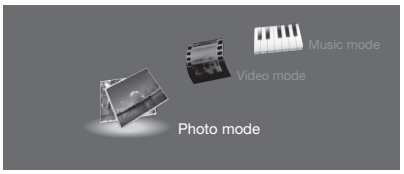
Home network

In this mode, you can enjoy viewing photos and listening to music from external Home network server.

NOTE

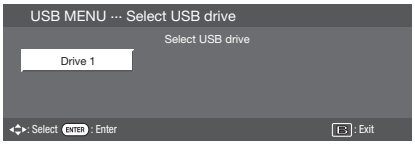
- You cannot enter the USB mode when there is no USB device.
- “Wide mode” is fixed during the Photo viewer and Music Player modes. (It is available for USB Video mode.) During “Video mode”, you can select “Auto” or “Original”.

Selecting modes and devices



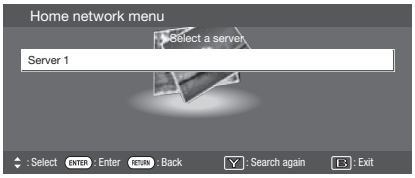
1 Press **B** and the screen below displays.

USB mode



Press ◀/▶ to select the drive where you want to find your files.

Home network mode



Press ▲/▼ to select the server where you want to find your files.

2 Press ◀/▶ to select among “Video mode”, “Music mode” and “Photo mode”.

3 Press **ENTER**.

NOTE

- “Video mode” is only available for USB mode.
- You do not need to select the drive/server in step 1 when there is only one drive in the connected USB device or there is only one Home network server connected to the TV.
- 16 is the maximum number of USB drives and 10 is the maximum number of Home network servers that can be displayed.

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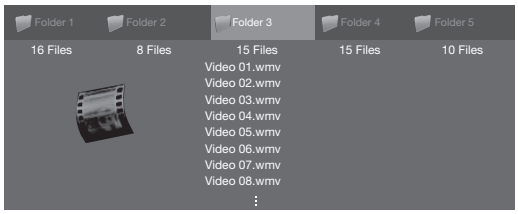
Video mode



1 Press ◀/▶ to select “Video mode”, and then press **ENTER**.

2 Press ◀/▶ to select the desired folder or directory, and then press **ENTER**.

3 Press ▲/▼ to select the desired video.

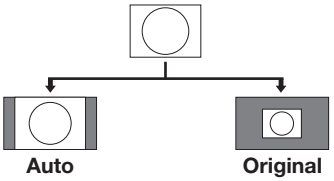
Buttons for video mode

Buttons	Description
ENTER	When selecting a folder icon: Enter this directory. When selecting a video file: Display the video in full screen.
▲/▼ (Cursor)	Select a desired item.
◀/▶ (Cursor)	Page up/down.
RETURN	Return to the folder list.
R button	Select/deselect videos shown in auto play.
B button	Go to the USB menu.

Selecting the picture size

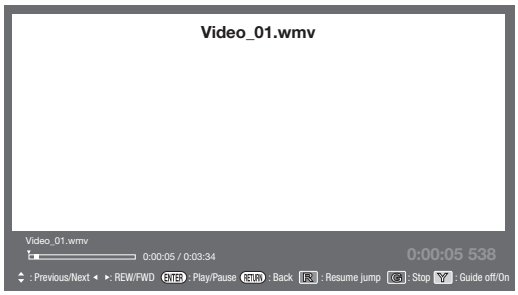
1 Press **WIDE**.
- The WIDE MODE menu displays.

2 Press **WIDE** or ▲/▼ while the WIDE MODE menu displays on the screen.



Item	
Auto	Keeps the original aspect ratio and enlarges the picture as much as possible.
Original	Keeps the original aspect ratio and size.

Viewing video


Video_01.wmv
Video_01.wmv
0:00:05 / 0:03:34
0:00:05 538
: Previous/Next : REW/FWD ENTER : Play/Pause RETURN : Back R : Resume jump G : Stop Y : Guide off/On

Buttons for full screen display operation

Buttons	Description
ENTER	Play/Pause the video.
▲ (Cursor)	Go to the beginning of the file by pressing ▲ once and the previous file by pressing ▲ twice.
▼ (Cursor)	Go to the next file.
▶ (Cursor)	The FWD speed changes every time you press ▶. After playing to the end, the player goes to the next file and starts to play.
◀ (Cursor)	The REW speed changes every time you press ◀. After going back to the beginning, the player starts to play the same file.
RETURN	Return to the video list screen.
G button	Stop the video.
Y button	Reveal/hide the guide display.
R button	Resume jump. (Jump to the scene where playback was last stopped.)
button	Each time you press on the remote control, the subtitle switches.
MPX button	Each time you press **MPX** button, the mode switches. (See page 27.)
When selecting “Control (USB)” by pressing “Tool” from “Menu” on the screen.		Control panel shown to the left displays and operations for video playback will be available.

NOTE
- The key guide is set to ON when playback is resumed.
- “Video mode” is only available for USB mode.
- Instead of pressing buttons on the remote control unit, the operations above are also available on the screen with the operation panel. You can call up this operation panel by pressing **CONTROL** on the remote control unit or select “Control (USB)” from “Option” → “Option for view”.
- Reverse/fast forward continues from one file to another during continuous playback.

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Music mode

* This bar is not shown in the “Home network” screen.

Buttons for music mode

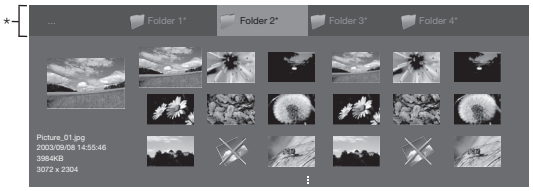
Buttons	Description
ENTER	When selecting a folder icon: Enter this directory. When selecting a music file: Play the music.
▲/▼ (Cursor)	Select a desired item.
◀ (Cursor)	Page up.
▶ (Cursor)	Page down.
RETURN	Return to the folder list in the USB mode. Return to the previous operation in the Home network mode.
R button	Select or deselect music or play automatically in the USB mode. Go to the parent folder in the Home network mode.
G button	Stop music.
Y button	Play/Pause music in the USB mode. Play music in the Home network mode.
B button	Go to the USB menu. This is not available in the Home network mode.

NOTE

- When there are invalid music files, the ✕ mark will be displayed for the file.
- The displayed play time may differ slightly from the actual play time depending on the files.

Photo mode

Viewing thumbnails



* This bar is not shown in the “Home network” screen.

Buttons for thumbnail operations

Buttons	Description
ENTER	When selecting a folder icon: Enter this directory. When selecting a photo thumbnail: Display the photo in full screen.
▲/▼/◀/▶ (Cursor)	Select a desired item.
B button	Go to the USB menu in the USB mode. Go to the Home network menu in the Home network mode.
R button	Select/deselect photos shown in the slide show in the USB mode. Move to the parent folder in the Home network mode.
G button	Selecting BGM This is not available in the Home network mode.
Y button	Slide show

NOTE

- When there are invalid photo files, the ✕ mark will be displayed for the file.
- You can see the file name, shooting date, file size and pixel size of the selected photo in the lower-left corner of the screen (shooting date is only available in the EXIF file format).

Viewing photos in full screen

Buttons for full screen display operation

Buttons	Description
◀/▶ (Cursor)	Go to the previous/next photo in the same directory.
RETURN	Return to the thumbnail selection screen.
R button	Rotate the photo by 90 degrees to the left.
G button	Rotate the photo by 90 degrees to the right.
Y button	Reveal/hide the guide display.

NOTE

- Rotating photos only applies to the temporarily selected item and this setting is not saved.

USB menu

You can set each function for each mode in the USB mode.

Home network menu

You can set each function for each mode in the Home network mode.

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DivX® setup

This is the function to confirm your registration code.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “DivX(R) setup”, and then press **ENTER**.

■ DivX® VOD registration

You need to visit the Divx main page to register your TV, then you can play DivX ® content.

■ DivX® VOD deregistration

You can find the deregistration code.

NOTE

- Visit www.DivX.com for more information about DivX® VOD.

List of files compatible with USB mode

USB device	USB Memory, USB card reader (Mass Storage class)
File system	FAT/FAT32
Photo file format	JPEG (.jpg) (DCF2.0 compliant)
Music file format	MP3 (.mp3) Bitrate: 32 k, 40 k, 48 k, 56 k, 64 k, 80 k, 96 k, 112 k, 128 k, 160 k, 192 k, 224 k, 256 k, 320 kbps Sampling frequency: 32 k, 44.1 k, 48 kHz

Video file format		
File extension	**Container**	**Video**
*.avi	AVI	DivX 3.11/4.x/5.1/6.0 XviD H.264 MPEG4
*.mkv	MKV	DivX 3.11/4.x/5.1/6.0 XviD H.264 MPEG4
*.asf	ASF	DivX 3.11/4.x/5.1/6.0 XviD MPEG4 VC-1
*.wmv	ASF	VC-1
*.mp4 *.mov	MP4	H.264 MPEG4 XviD
*.mpg *.mpeg	PS	MPEG2 MPEG1

NOTE

- Progressive format jpeg files are not supported.
- Files in USB 1.1 devices may not be played properly.
- Operation using USB hubs is not guaranteed.
- The compatibility of USB HDDs may not be guaranteed.
- Some video file formats may not be played depending on the file.
- Files may not be playable depending on the bitrate.

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Tool menu items

Convenient functions organise in a shortcut menu.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Tool”.
3. Press ▲/▼ to select the desired service.

See the following pages for description for each selected item.

AV mode ..... **Page 33**
Picture
- **OPC** ..... **Page 34**
- **Backlight** ..... **Page 34**
- **Contrast** ..... **Page 34**
- **Brightness** ..... **Page 34**
- **Colour** ..... **Page 34**
- **Tint** ..... **Page 34**
- **Sharpness** ..... **Page 34**
- **Advanced**
  - **C.M.S.-hue** ..... **Page 35**
  - **C.M.S.-saturation** ..... **Page 35**
  - **C.M.S.-value** ..... **Page 35**
  - **Colour temp.** ..... **Page 35**
  - **Fine motion advanced** ..... **Page 35**
  - **Gamma adjustment** ..... **Page 35**
  - **Film mode** ..... **Page 35**
  - **Active contrast** ..... **Page 35**
  - **DNR** ..... **Page 35**
  - **3D-Y/C** ..... **Page 36**
  - **Monochrome** ..... **Page 36**
  - **Range of OPC** ..... **Page 36**
- **Reset** ..... **Page 34**

Audio
- **Auto volume** ..... **Page 38**
- **Treble** ..... **Page 38**
- **Bass** ..... **Page 38**
- **Balance** ..... **Page 38**
- **SRS TS HD** ..... **Page 38**
- **Bass enhancer** ..... **Page 38**
- **Reset** ..... **Page 38**
- **Clear voice** ..... **Page 38**

Programme info. ..... **Page 39**
Wide mode ..... **Page 32**
Control (USB) ..... **Page 63**
Screen effect
- **Channel selecting effect** ..... **Page 53**
- **Programme title display** ..... **Page 29**
- **Position** ..... **Page 36**

Link operation ..... **Pages 45 to 49**
Sleep timer ..... **Page 30**

NOTE

- Some menu items may not be displayed depending on the selected input source.

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Appendix

Troubleshooting

The problems described below are not always caused by malfunctions. Check the TV again before having the TV serviced.

Problem	Possible Solution
• No power.	• Is the AC cord disconnected? (See page 12.) • Has the power been turned on? (See page 16.) • When the power switch does not work, remove the power plug and insert it again, and press **POWER** ⏻ on the TV after waiting more than five seconds.
• Unit cannot be operated.	• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off the TV or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	• Are batteries inserted with polarity (+, −) aligned? (See page 15.) • Are batteries worn out? (Replace with new batteries.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light shining on the remote control sensor?
• Picture is cut off.	• Is the image position correct? (See page 36.) • Are screen mode adjustments such as picture size made correctly? (See pages 31, 32, 55 and 63.)
• Strange colour, light colour, or dark, or colour misalignment.	• Adjust the picture tone. (See pages 34 to 36.) • Is the room too bright? The picture may look dark in a room that is too bright. • Check the colour system setting. (See pages 22 and 52.) • Check the “HDMI auto view” setting. (See page 50.)
• Power is suddenly turned off.	• The unit's internal temperature has increased. Remove any objects blocking the vent or clean. • Check the “ECO” setting. (See pages 30 and 31.) • Is the sleep timer set? (See page 30.)
• No picture.	• Is the connection to external equipment correct? (See pages 13 and 14.) • Is the correct input selected? (See page 51.) • Is the picture adjustment correct? (See pages 34 to 36.) • Is the antenna connected properly? (See page 12.) • Is “On” selected in “Audio only”? (See page 25.)
• No sound.	• Is the volume too low? (See page 20.) • Make sure that headphones are not connected. (See page 10.)
• The TV sometimes makes a cracking noise.	• This is not a malfunction. This happens when the cabinet slightly expands and contracts according to changes in temperature. This does not affect the TV's performance.
• Cannot select the desired channel.	• Switch between Digital TV and Analogue TV modes.

Troubleshooting-Digital broadcasting

Problem	Error code	Possible Solution
• No picture or no sound.	–	• Is the correct Input source selected? (See page 51.)
• Block noise appears on the screen.		• Is the antenna pointing in the correct direction? • Check the “Signal strength” and “Quality”. (See page 17.) • Are physical objects blocking the antenna? • Is the antenna or antenna cable compatible with DTV broadcast?
• DTV broadcasts cannot be received.	**E202**	• Is the DTV antenna set up properly? • Is the antenna cable connected properly? (See page 12.) • Is the channel settings correct? (See page 17.)
• A specific channel cannot be received.	–	• Check the “Signal strength” and “Quality”. (See page 17.)
• No broadcast now	**E203**	• Check the current broadcast.

Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.
  Storage temperature: −20°C to +60°C.

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Reset

If complex adjustments are made and the settings cannot be restored to normal, you can reset the settings to the factory preset values.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

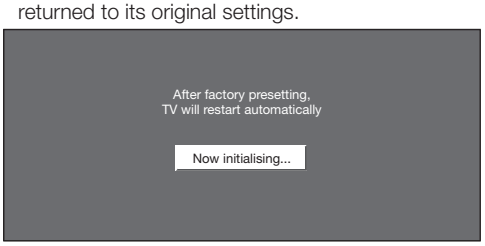
3 Press ▼/◀/▶ to select “View setting”.

4 Press ▲/▼ to select “Reset”, and then press **ENTER**.

5 If you have already set the password, enter it here.
- “Return to factory pre-settings” displays on the screen.

6 Press ◀/▶ to select “Yes”, and then press **ENTER**.
- “Now, TV will restart automatically. OK?” displays on the screen.

7 Press ◀/▶ to select “Yes”, and then press **ENTER**.
- “Now initialising...” displays on the screen and blinks.
- After the reset has completed, the power shuts off and then comes back on. The screen will have returned to its original settings.



8 Press ▲/▼ to select the desired language listed on the screen, and then press **ENTER**.
Press ◀/▶ to select “HOME” or “STORE”, and then press **ENTER**.

9 Setting the country.
Press ▲/▼ to select your country or area, and then press **ENTER**.
- This setting screen only appears during the initial auto installation.

10 Press ◀/▶ to select “Digital search” or “Analogue search”, and then press **ENTER**.
- When the country setting is set to “Australia”, only “Digital search” is available.

11 The TV searches for, sort and stores all the receivable TV stations according to their settings and the connected antenna.
- To abort the initial auto installation in progress, press **RETURN**.

NOTE
- When the TV is in “STORE” mode, repeat steps 1 to 8 to change to “HOME” mode.

Download setup

The TV automatically determines whether a new software version is available when the TV is in standby mode.
Go to “Menu” → “Setup” → “View setting” → “Individual setting” → “Standby search” → “Download setup”.

Selected item	Description
Yes	Automatically searches for new software updates available when the TV is in standby mode.
No	Does not search for update information.
Now	Checks if there is new software immediately.

Downloading the software

You can select the method of update.

1 If the software is updated, the confirmation message “New download information has been detected.” appears.
- If the TV receives the update service while in standby mode, a confirmation message displays after turning on the power.

2 Follow the screen prompts.

Selected item	Description
Yes	Starts downloading immediately. It takes approximately one hour to update. You cannot carry out other operations while downloading. • Cancels the download by pressing **ENTER** on the remote control unit when “Discontinue” is displayed on the screen during the update.
No	Starts downloading automatically several minutes after entering standby mode.

NOTE
- The TV must remain in standby mode for download.
- Updating the software may take some time.

Information

Message list

When a new broadcast station is detected, the message is updated in the “Message list” of the “Information” menu.

NOTE
- If there are unread messages in the “Message list”, “New information” is displayed on “Channel display”. (See page 20.)

Receiver report

Display reports regarding failures and changes for timer settings.

Identification

You can check the current version of the software on the screen.

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Updating your TV via USB

This function allows you to update to the latest software using a USB device. You must update the software through the USB terminal.

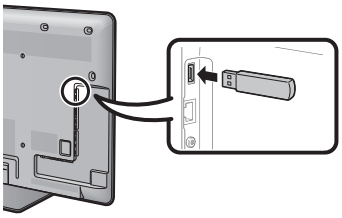
1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▼/◀/▶ to select “Information”.

4 Press ▲/▼ to select “Software update”, and then press **ENTER**.

5 Press **ENTER** and then insert the USB device containing the software update file.



CAUTION

- Be sure to insert the USB device correctly into the terminal.

6 The TV displays a confirmation screen while checking the data in the inserted USB device.

CAUTION

- If the data is not compatible with the system, an error message appears on the screen. Repeat steps 2 and 3 after pressing **ENTER**.
- When an error message displays, check to see if:
  - The USB device is inserted firmly.
  - The USB memory has two or more software update files.
  - No data for updating the system exists in the USB memory.
  - The software update file is broken.
  - The software update file is not compatible with your TV’s software.
  - The current system is same as the system update data.

7 The TV displays the software version information after checking the data.

8 Press ◀/▶ to select “Yes” to update the system, and then press **ENTER**.

9 Press **ENTER** to automatically reset and start the update operation.

- This operation may take a while.

The TV starts updating the system

A confirmation message appears on the screen after completing the update and then automatically restarts the TV. Press **ENTER** to complete the operation.

Information on the software license for this product

Software composition

The software included in this product is comprised of various software components whose individual copyrights are held by SHARP or by third parties.

Software developed by SHARP and open source software

The copyrights for the software components and various relevant documents included with this product that were developed or written by SHARP are owned by SHARP and are protected by the Copyright Act, international treaties, and other relevant laws. This product also makes use of freely distributed software and software components whose copyrights are held by third parties. These include software components covered by a GNU General Public License (hereafter GPL), a GNU Lesser General Public License (hereafter LGPL) or other license agreement.

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http://www.sharp.net.au

We are unable to answer any questions about the source code for the open source software. The source code for the software components whose copyrights are held by SHARP is not distributed.

Acknowledgements

The following open source software components are included in this product:
• linux kernel • busy box • glibc • zlib • libpng • libjpeg • mtd-utils • U-Boot • device-mapper

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libjpeg
This software is copyright © 1991-1996, Thomas G. Lane.
Portions of this software are based in part on the work of the Independent JPEG Group.

Portions copyright © 2004 Intel Corporation

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Specifications

Item \ Model			LC-40LE820X	LC-46LE820X	LC-52LE820X
Resolution			2,073,600 pixels (1920 × 1080)		
Video colour system			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60		
TV function	TV-standard	Analogue	PAL: B/G, D/K, I SECAM: B/G, D/K, K/K1 NTSC: M		
		Digital	DVB-T		
	Receiving channel	VHF/UHF	44.25-863.25 MHz		
		CATV	S1-S41ch (including Hyperband)		
	TV tuning system		Auto preset 99 channel		
	Stereo/Bilingual		NICAM: B/G, I, D/K A2 stereo: B/G BTSC		
Viewing angles			H: 176° V: 176°		
Audio amplifier			10W + 10W, 15W (Woofer)		
Speaker			(8.5cm × 1.5cm)×2 / Ø 9.5cm		
Terminals	Rear	ANT (Antenna input)	UHF/VHF 75 Ω Din type		
		INPUT 1	AUDIO in, COMPONENT in (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz)		
		INPUT 2	VIDEO in, AUDIO in		
		INPUT3 (PC input)	15 pin mini D-sub, AUDIO in (shared usage with INPUT5) (Ø 3.5 mm jack)		
		INPUT 4 (ARC)	HDMI (HDMI input) (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz, 1080P/50Hz, 1080P/60Hz, 1080P/24Hz)		
		INPUT 5	HDMI (HDMI input) (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz, 1080P/50Hz, 1080P/60Hz, 1080P/24Hz), AUDIO in (shared usage with INPUT3) (Ø 3.5 mm jack)		
		INPUT 6	HDMI (HDMI input) (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz, 1080P/50Hz, 1080P/60Hz, 1080P/24Hz)		
		INPUT 7	HDMI (HDMI input) (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz, 1080P/50Hz, 1080P/60Hz, 1080P/24Hz)		
		DIGITAL AUDIO OUTPUT	Optical Digital audio output		
		RS-232C	9 pin D-Sub male connector		
		ETHERNET (10/100)	Home network connector		
		USB	USB		
		OUTPUT	Ø 3.5 mm jack (Audio output)		
OSD language			English/Simplified Chinese/Arabic		
Power requirement			AC 110–240 V, 50/60 Hz		
Power consumption			126W (0.3W Standby)	137W (0.3W Standby)	148W (0.3W Standby)
Weight	Without stand		20.0kg	25.0kg	29.0kg
	With stand		23.5kg	30.5kg	34.5kg
Operating temperature			0 °C to +40 °C		

- As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Optional accessory

The listed optional accessory is available for the LCD colour TV. Please purchase it at your nearest shop.

- Additional optional accessories may be available in the near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

Part name	Model number
Wall mount bracket (For LC-40LE820X)	AN-37AG2+AN-37P30
Wall mount bracket (For LC-46LE820X/ LC-52LE820X)	AN-52AG4

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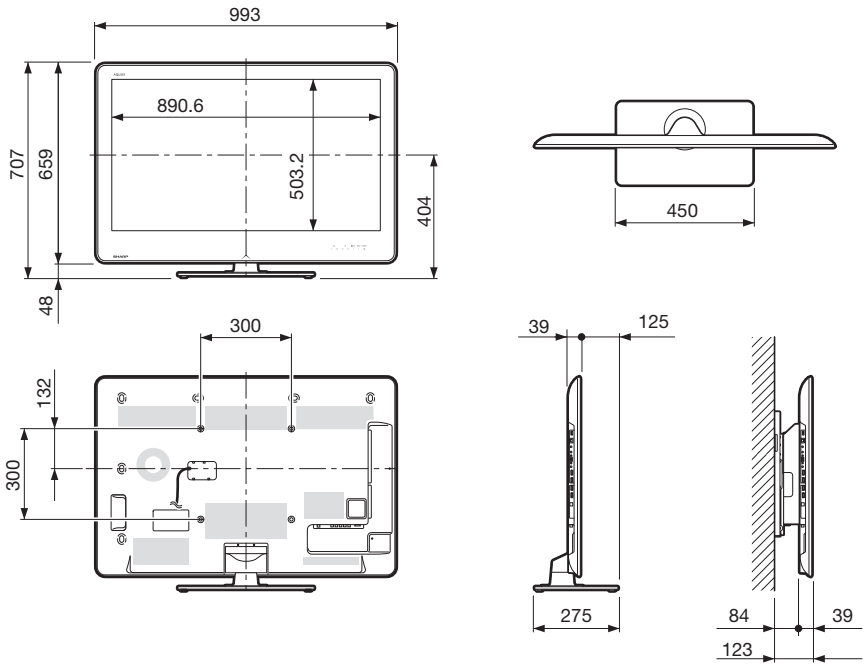
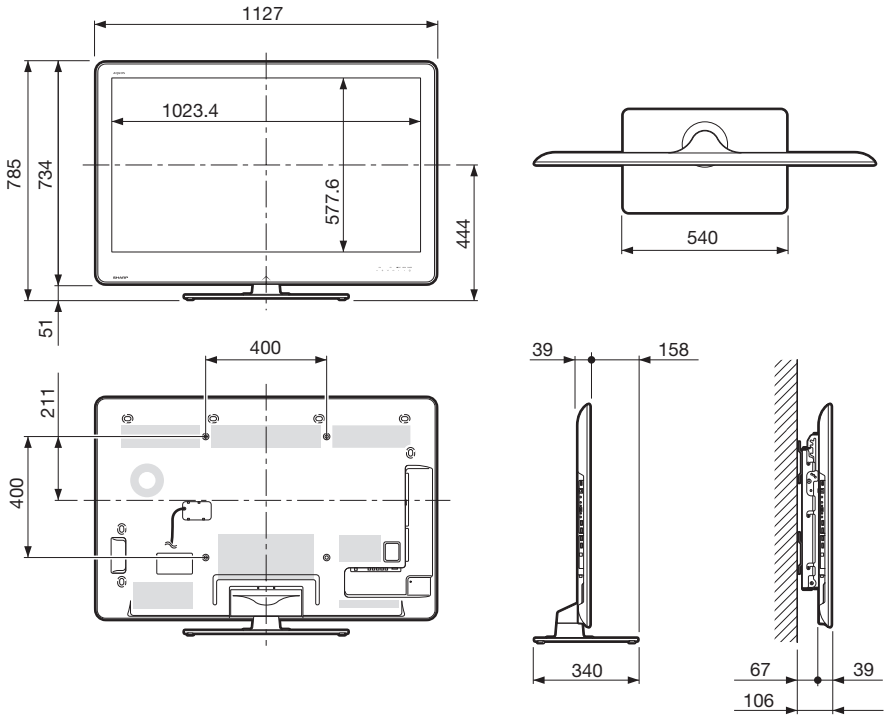
Dimensional drawings

Unit: mm

LC-40LE820X



LC-46LE820X



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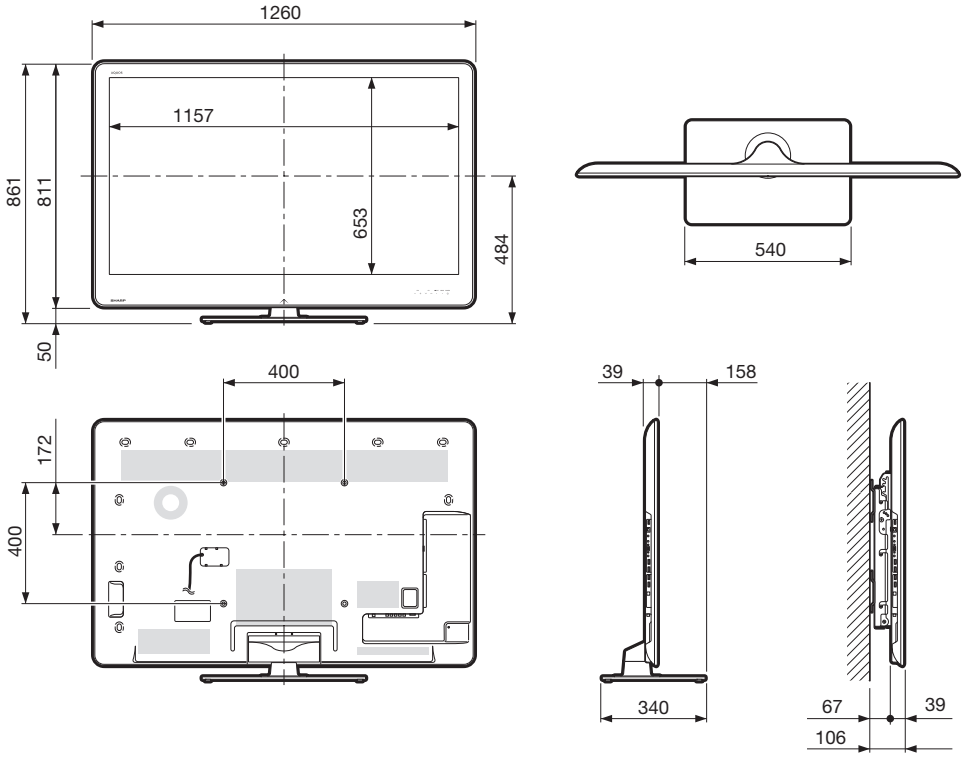
Dimensional drawings (Continued)

Unit: mm

LC-52LE820X



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Mounting the TV on the wall

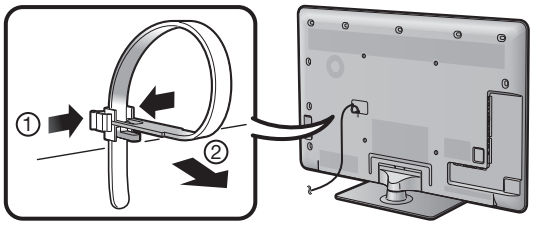
Removing the stand

For wall mounting with the optional bracket (AN-37AG2+AN-37P30 or AN-52AG4) remove the stand.

Before setting TV on the wall.

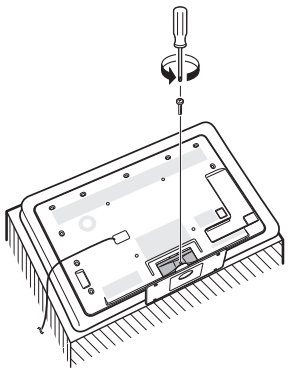
- Remove the connected cables (DVD, VCR, etc) from the terminals.
- Detach the four caps at the 4 locations on the rear of the TV.

1



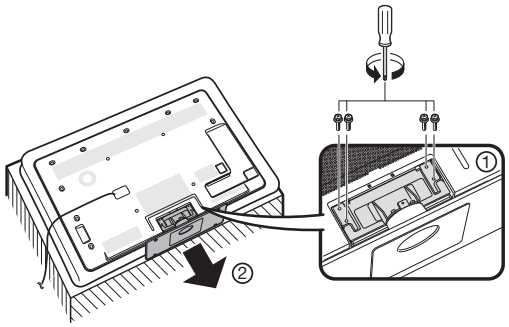
① Pinch the portion at ①.
② Pull out the portion at ②.

2



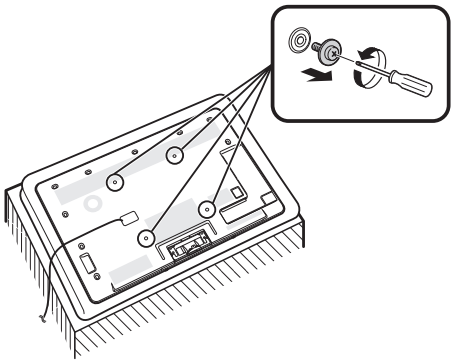
Loosen the screw used to secure the stand cover and remove the cover.

3



① Unfasten the 4 screws used to secure the stand in place.
② Detach the stand from the TV. (Hold the stand so it will not drop from the edge of the base area.)

4



Remove the screws at the 4 locations on the rear of the TV.

NOTE

- To attach the stand, perform the above steps in reverse order.
- As the TV is very heavy, be careful when moving it.

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Handling and precautions with the wall-mounted TV

- You can mount the TV on the wall using the optional AN-37AG2+AN-37P30 or AN-52AG4 bracket.
- For details, refer to the instructions supplied with the optional bracket.

CAUTION

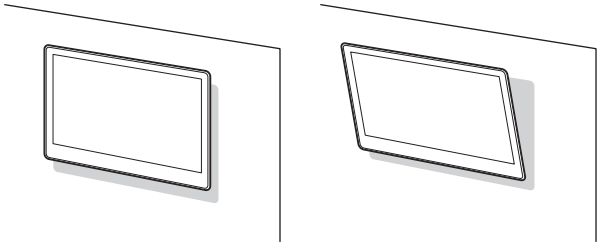
- **This TV should be mounted on the wall only with the AN-37AG2+AN-37P30 or AN-52AG4 (SHARP) wall mount bracket. The use of other wall mount brackets may result in an unstable installation and may cause serious injuries.**
- **Installing the TV requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.**

Using a SHARP recommended bracket to mount the TV

- You can ask a qualified service professional about using a SHARP recommended AN-37AG2+AN-37P30 or AN-52AG4 bracket to mount the TV to the wall.
- Carefully read the instructions that come with the bracket before beginning work.

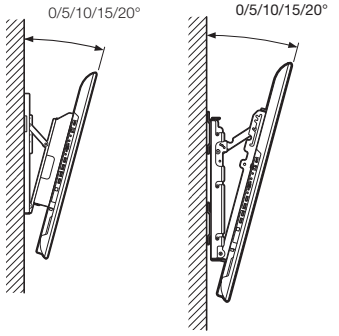
Hanging on the wall

AN-37AG2+AN-37P30 and AN-52AG4 wall mount bracket.
(See the bracket instructions for details.)



Vertical mounting　　Angular mounting

About setting the TV angle



AN-37AG2+AN-37P30 (LC-40LE820X)　**AN-52AG4 (LC-46/52LE820X)**

NOTE

- Detach the cable clamps on the rear of the TV when using the optional mount bracket.

Wall mount audio setup

When you mount the TV on a wall, you can adjust the sound to a more suitable one by setting this function to “Yes”.

1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Wall mount audio setup”, and then press **ENTER**.
5. Press ▲/▼ to select “Yes”, and then press **ENTER**.

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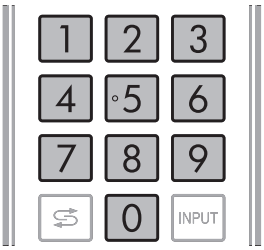
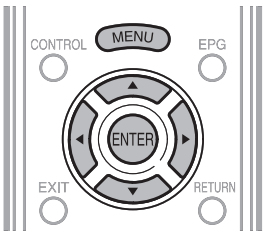
Clearing the password

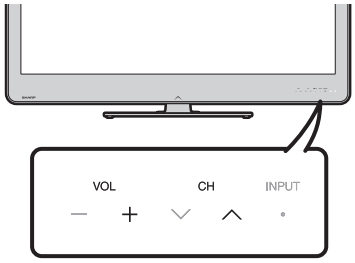
If you forget your password, clear the password using the following procedure.





1. Press **MENU** and the MENU screen displays.
2. Press ◀/▶ to select “Setup”.
3. Press ▼/◀/▶ to select “View setting”.
4. Press ▲/▼ to select “Individual setting” and then press **ENTER**.
5. Press ▲/▼ to select “Password”, and then press **ENTER**.
6. The password input screen displays.

   – – – –
7. Press and hold both **CH** ∧ and **VOL** + on the TV simultaneously until the message appears on the screen.



NOTE

- To set the password again, refer to “Password setting for the child lock” on page 28 and follow the instructions.

The Password is | | | | | .

NOTE

- As a precautionary measure, make a note of your password above, remove it from this manual, and keep it in a familiar place.

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Memo

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